THE

Maryland State College of Agriculture

QUARTERLY

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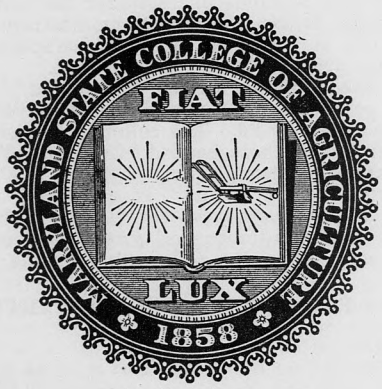
FERTILIZER ANALYSES

The New Fertilizer Law, Page 5.

A. F. WOODS, President.

H. B. McDONNELL, State Chemist



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ADDRESS

Chemical Department, Maryland State College of Agriculture

COLLEGE PARK, MD.

ANALYSES OF

Fertilizers Sold in Maryland

BY THE DIVISION OF APPLIED SCIENCE OF

The Maryland State College of Agriculture

Dr. H. B. McDonnell, Dean—State Chemist.
L. B. Broughton, M. S., Professor of Analytical Chemistry.
R. C. Wiley, B. S., Assistant Professor of Chemistry.
L. H. Van Wormer, M. S., Assistant Chemist.
T. B. Leith, B. A., Assistant Chemist.
*————————, Assistant Chemist and Bacteriologist.
F. G. Baggs, Clerk.
R. F. Malone, Stenographer.

The tables on the following pages are made up of the results of the Analysis of fertilizers made at the College from March to July, 1918, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer, his name, or initials, will be found after the "place of sampling." If "place of sampling" is not given, the sample has been made up of two or more samples taken at different places. Before sending samples of fertilizer for analysis, farmers should always send for blank forms and directions, stating the number of blanks wanted. One blank is required for each sample. No sample will be analyzed unless the proper blank form is used.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential parts of the guarantee as stamped on the bags.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory: the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the following schedule:

SCHEDULES FOR CALCULATING COMPARATIVE VALUES.

In Mixed Fertilizers:

For Nitrogen, calculated as Ammonia	35 cts.	per lb.,	$7.00 per unit
For potash (K_2O)	25 cts.	per lb.,	5.00 per unit
For Available Phosphoric Acid	6 cts.	per lb.,	1.20 per unit
For Insoluble Phosphoric Acid	2 cts.	per lb.,	0.40 per unit
For Insoluble Phosphoric Acid when from rock	1 ct.	per lb.,	0.20 per unit

In Dissolved Rock:

Available Phosphoric Acid	6 cts.	per lb.,	1.20 per unit
Insoluble Phosphoric Acid	1 ct.	per lb.,	0.20 per unit

In Tankage:

For Nitrogen, calculated as Ammonia	35 cts.	per lb.,	7.00 per unit
For Phosphoric Acid	3 cts.	per lb.,	0.60 per unit

In Ground Bone:

For Nitrogen, calculated as Ammonia	35 cts.	per lb.,	7.00 per unit
For Phosphoric Acid	3 cts.	per lb.,	0.60 per unit

*Vacant.

At the time the above schedule was adopted the comparative values obtained by its use were not far from the proper selling prices for cash in Baltimore. At this time, however, prices of ammoniates advanced, due to shortage of supply and the great demand for such goods. At the time this bulletin is issued ammonia costs at wholesale about $8.00 per unit and available phosphoric acid $1.50 per unit. At $1.50 per unit 16% acid phosphate is worth $24 per ton.

The comparative values, as calculated from the tables, are intended, as the name implies, to afford a ready means of approximate comparison of similar fertilizers in terms of value, which is more readily understood by many persons than the analysis figures alone.

In the schedule for comparative values we add to the per pound schedule the equivalent for "units." To get the comparative value from the guaranteed analysis, all that is necessary is to multiply the analysis figure by the value per unit and take the sum to get the comparative value per ton. For example, if the fertilizer is a 2-12-1, (2% ammonia, 12% available phosphoric acid and 1% potash), multiplying these figures by the per unit value. Thus we have 2 tmes $8 equals $16, 12 times $1.50 equals $18, 1 time $6 equals $6. The sum giving a comparative value of $40 per ton. This is somewhat less than the price allowed by the Government for this fertilizer, the Government price being $43.00 per ton. Other prices allowed by the Government, of which we give but a few for comparison, are as follows:

Phosphate, Acid Phosphate	16%	$23.50
Acid Phosphate and Potash	0-8-2	33.25
Ammoniated Phosphate	1-8-0	25.25
Complete Fertilizers	1-8-1	31.50
Complete Fertilizers	2-8-2	45.50
Complete Fertilizers	3-8-2	59.50
Complete Fertilizers	4-12-3	71.00
Complete Fertilizers	10-8-3	103.00

The schedule for calculating comparative values for the fall season has had to be advanced as follows:

Nitrogen calculated as Ammonia	$8.00 per unit
Available Phosphoric Acid	1.50 per unit
Potash	6.00 per unit

EXPLANATION OF ANALYSES.

Nitrogen ("ammonia") comes from various sources such as nitrate of soda, sulfate of ammonia, cyanamid, dried fish, animal tankage, etc. As the values in recognized available forms of nitrogen do not vary greatly, especially when considering the small percentage met with in the ordinary mixed fertilizer, we determine simply the total nitrogen, giving it in its equivalent of ammonia. 0.82% of nitrogen being equivalent to 1% of ammonia. There are unavailable sources of nitrogen that should not be used in fertilizer, such as hair, feathers, wool waste, dried peat. etc. The Maryland law requires that the ammonia in fertilizer be in an available form. Where material like peat are recognized in appreciable amounts the available ammonia will be determined by the standard method for making this test.

Materials containing nitrogen in unavailable forms such as hair, feathers, wool waste, leather, etc., may be changed to available forms by proper treatment with strong sulfuric acid. In practice this is done by mixing some of the material with the raw ground phosphate rock and treating the mixture with sulfuric acid as is done in making a plain dissolved rock phosphate. The mixture becomes quite hot and the prolonged treatment of the hot acid dissolves the nitrogenous material making it available. This material is called "base goods." In some cases the nitrogenous material is dissolved in hot acid and the acid then used to dissolve rock phosphate.

POTASH.

Only potash soluble in distilled water is recognized by our law and all of the potash results given in this bulletin are of potash soluble in distilled water. This gives no credit, of course, for the insoluble, unavailable and worthless potash that might be added in insoluble forms like feldspar. The soil of Maryland contains, on the average, at least 2% of insoluble potash.

PHOSPHORIC ACID.

In the analysis for phosphoric acid it is divided into three parts depending upon its solubility. First the sample to be tested is extracted with pure water and the percentage of phosphoric acid extracted is called "soluble phosphoric acid." The residue, insoluble in pure water is next treated with a solution of citrate of ammonia, specific gravity 1.09, for half an hour at a temperature of 65° C, and the phosphoric acid extracted by this treatment is termed "reverted phosphoric acid." The soluble and reverted phosphoric acid are frequently determined together and called "available phosphoric acid." The residue, after treating the sample with citrate of ammonia and extracting the reverted phosphoric acid, is dissolved in strong acid and the amount of phosphoric acid obtained is the "insoluble phosphoric acid." The sum of the soluble, reverted and insoluble phosphoric acid gives the total phosphoric acid. In practice, however, it is found convenient to take a fresh sample of fertilizer, dissolve it in strong acid and determine the total phosphoric acid directly, and to get the available phosphoric acid by subtracting the insoluble phosphoric acid from the total phosphoric acid so obtained, thus avoiding the necessity of recovering the phosphoric acid from the citrate of ammonia solution mentioned above. It will thus be seen that the soluble phosphoric acid is included in the available phosphoric acid.

This may be made clear by showing the relation of the various forms of phosphoric acid in a diagram as follows:

Soluble Phosphoric Acid	Available Phos. Acid	Total Phosphoric Acid
Reverted Phosphoric Acid		
Insoluble Phosphoric Acid		

While we consider the determinations of Soluble Phosphoric Acid important, and have been making this determination and including the result in recent bulletins, it has been necessary to omit it from this bulletin because of the difficulty of having the work done under existing conditions.

ORDER YOUR FERTILIZER EARLY.

On account of the scarcity of fertilizer, labor conditions and railroad congestion, fertilizer should be ordered early and orders combined in such a way as to get it in car lots. Many of those who put off ordering expecting to haul directly from the car to the field will be disappointed.

BUY HIGH-GRADE FERTILIZER.

In general we recommend the purchase of High-Grade fertilizers. While the price per ton is more the price per pound or per unit of actual plant food is generally considerably less than in Low-Grade fertilizers.

NEW FERTILIZER LAW.

The new Fertilizer Law will go into effect December 1. It is as follows:

Fertilizer Law of Maryland

(IN EFFECT DECEMBER 1, 1918.)

Section 1. That the term "fertilizer" as used in this Act shall mean any commercial fertilizer, or any article, substance, or mixture sold, offered, or exposed for sale, for manurial purposes in the State of Maryland of which the selling price shall be more than $5.00 per ton of two thousand pounds, but shall not include ground gypsum, lime, ground limestone, ground shells, or dung of domestic animals, in bulk, when sold as such and when not mixed with other fertilizer or fertilizer materials. The term "State Chemist" shall mean the professor in charge of the Chemical Department of the Maryland State College of Agriculture, who shall be ex-officio State Chemist. The term "brand" shall mean the full name, brand and trade-mark under which a fertilizer is sold, together with a statement of the percentage of the valuable ingredients contained in said fertilizer.

Sec. 2. That every manufacturer, jobber, or manipulator of commercial fertilizer, and materials used in the manufacture of the same, who may desire to sell or offer for sale in the State of Maryland such fertilizer or fertilizer materials before offering the same for sale shall file with the Maryland State College of Agriculture upon forms furnished by said College the name of each and every brand of fertilizer which it is desired to sell in the said State by any said manufacturer, jobber, or manipulator, or their agents, together with the name and address of said manufacturer, jobber, or manipulator, and the guaranteed analysis of said fertilizer stating the sources from which the phosphoric acid, nitrogen and potash are derived; and if the said fertilizer is sold under a different name, or names, said fact shall be stated and the different brands which are identical in composition shall be named. The said statements filed with the said College shall be published at least semi-annually together with the analyses made by, or under, the direction of the State Chemist as hereinafter provided.

Sec. 3. That every importer, manufacturer, manipulator, dealer, or agent before selling, offering, or exposing for sale, within the State of Maryland any fertilizer shall pay to the Maryland State College of Agriculture a fee of $10.00 per brand for each brand registered under Section 2 of this Act and on or before December 31st, of each year shall file with the College a statement, made under oath in due form of law, giving the total number of tons of fertilizer sold during that calendar year in the State of Maryland, and shall pay thereon an inspection tax of ten cents per ton; provided, however, goods sold in bulk to manufacturers, manipulators, or mixers for resale, of fertilizers shall not be subject to the said tax of ten cents per ton; provided further that where the tonnage tax paid in any one calendar year is in excess of the brand tax of $10.00 above provided the said brand tax shall be rebated; and provided further that when any manufacturer, dealer or importer has paid the required inspection fees no other person selling the same goods under his name and brand shall be required to pay such fee.

Sec. 4. That every bag, barrel, or package of fertilizer must bear plainly and conspicuously on the outside of same, and every parcel or lot sold in bulk must be accompanied by, a clear and true statement in legible print, and in the order herein stated, the following:

The net weight of the contents of the package or lot in pounds;
Brand name or trade-mark;
Guaranteed analysis in percentage—
Nitrogen (N) in available form or its equivalent in Ammonia (NH^3);
Available Phosphoric Acid (P^2O^5);
Potash (K^2O) soluble in distilled water;
Name and address of manufacturer.

In lieu of the available phosphoric acid above stated, the soluble phosphoric acid, and the reverted phosphoric acid, may be given; also the maximum per cent. of chlorine, and the minimum of insoluble phosphoric acid. There may also be stated on the package the source, or sources, of the several fertilizing constituents. In the case of unacidulated bone, tankage, fish or other animal, or vegetable matter, used as fertilizer, it shall be lawful to guarantee the phosphoric acid as total phosphoric acid, but it shall be unlawful to include the same constituents more than once in the guaranteed analysis of any fertilizer, either in the same form of chemical combination or in a defferent form of chemical combination; provided, however, that in the statement of the guaranteed analysis the minimum percentage only of the several constituents shall be given.

Sec. 5. That it shall be unlawful to sell, offer or expose for sale for fertilizer purposes any raw, or untreated, leather, hair, wool waste, hoof,

horn, peat, cyanogen compounds, muck, tartar pomace, mora meal, or similar materials, either as such or mixed with other fertilizer materials; provided, however, that this section shall not apply to such material as has been treated in a manner to make available the essential fertilizing constituents which it may contain; and provided further that the section shall not apply to the raw materials hereinbefore enumerated which are consigned to, or offered for sale in bulk, to manipulators, or manufacturers of fertilizers.

Sec. 6. That the words "High Grade" shall not appear upon any bag or package of any complete fertilizer containing, according to its guaranteed analysis, less than 1.65% of nitrogen (equivalent to 2% of ammonia), 10% of available phosphoric acid and 2% of potash; that the words "Medium Grade" shall not appear upon any bag or package of any complete fertilizer containing, according to its guaranteed analysis, less than 0.82% of nitrogen (equivalent to 1% of ammonia), 8% of available phosphoric acid and 1% of potash; that the words "High Grade" shall not appear upon any bag or package of acid phosphate with potash containing, according to its guaranteed analysis, less than 13% of available phosphoric acid and 1% of potash; that the words "Medium Grade" shall not appear upon any bag or package of acid phosphate with potash containing, according to its guaranteed analysis, less than 11% of available phosphoric acid and 1% of potash; that the words "High Grade" shall not appear upon any bag or package of plain acid phosphate containing, according to its guaranteed analysis, less than 16% of available phosphoric acid; that the words "Medium Grade" shall not appear upon any bag or package of plain acid phosphate containing, according to its guaranteed analysis, less than 14% of available phosphoric acid; that the words "High Grade" shall not appear upon any bag or package of ammoniated superphosphate containing, according to its guaranteed analysis, less than 10% of available phosphoric acid and 2.47% of nitrogen (equivalent to 3% of ammonia); that the words "Medium Grade" shall not appear upon any bag or package of ammoniated superphosphate containing, according to its guaranteed analysis, less than 10% of availible phosphoric acid and 0.82% of nitrogen (equivalent to 1% of ammonia); that the words "Low Grade" shall be plainly and conspicuously stamped on the outside of every bag, barrel or package of complete fertilizer which contains less than 0.82% of nitrogen (equivalent to 1% of ammonia), 8% of available phosphoric acid and 1% of potash; on the outside of every bag, barrel or package of acid phosphate with potash which contains less than 11% of available phosphoric acid and 1% of potash; on the outside of every bag, barrel or package of ammoniated superphosphate which contains less than 10% of available phosphoric acid and 0.82% of nitrogen (equivalent to 1% of ammonia); and on the outside of every bag, barrel or package of acid phosphate or dissolved rock containing less than 14% of available phosphoric acid.

Sec. 7. That each and every brand of fertilizer, or fertilizer material, filed with the Maryland State College of Agriculture must remain uniform with the guaranteed analysis of said brand, and in no case, even at a subsequent registration, shall the grade be lowered by reducing any, or all, of the several constituents contained therein.

Sec. 8. That it shall be the duty of the Maryland State College of Agriculture to procure for analysis one or more samples, in each year, as far as practicable, of all fertilizers sold, offered for sale, or used in the State of Maryland, and the State Chemist, or any agent or representative, duly authorized by him, or by the Maryland State College of Agriculture, shall have the right to take samples from any lot, or parcel, of fertilizer in the possession, or in the keeping, of any manufacturer, manipulator, dealer, agent, consumer, or transportation company, in said State of Maryland, and it shall be the duty of the Maryland State College of Agriculture to publish at least semi-annually the results of the analysis made by the said College of the samples procured by or sent to it, for such purpose, and when reporting, or publishing the result of any analysis to state the approximate commercial value in dollars and cents of the fertilizer so analyzed per ton of two thousand pounds, such value to be based upon the analysis made at the said College and upon a standard of valuation to be ascertained, fixed and published by said College as above provided after conference with the proper officials of adjacent States.

Sec. 9. Any purchaser of fertilizer, or fertilizers, provided he is not a manufacturer, or manipulator, or agent, of the same, may have taken, in the presence of a disinterested witness a sample, or samples, of said fertilizer and forward the same with all transportation charges prepaid

to the Maryland State College of Agriculture for analysis, provided, said purchaser of fertilizer or fertilizers notify the manufacturer or manipulator of the fertilizer or fertilizers from which said sample or samples are to be taken, or the Agent who sold said goods to said purchaser, by mailing notice in writing at least (6) days in advance of the taking of said sample or samples, said (6) days notice to date from the time of mailing said notice, stating the time and place at which said sample or samples are to be taken, so that the manufacturer or manipulator may have the privilege of having a representative present, or that said Agent may be present, to see that said sample or samples are taken in accordance with the rules and regulations of the Board of Trustees of the Maryland State College of Agriculture; provided, however, that if no representative of the manufacturer or manipulator, or said Agent be present, at the time of said sampling, then two disinterested witnesses, and not one as above provided, must be present that samples so taken shall be from unbroken bags, or packages, which have not been damaged or injured in transit, or by exposure, and which have not been in possession of the owner more than thirty (30) days, provided, further, that said samples be taken from at least 5% of the bags or packages comprising the brand purchased and if there are less than 100 bags, or packages, of the brand so purchased samples shall be taken from not less than 5 bags, or packages, and if there are less than 5 bags or packages samples shall be taken from each. All such samples shall be taken under such additional rules and regulations as may be prescribed by the Maryland State College of Agriculture, provided further, that every sample sent for analysis to the said College shall be fully described on forms to be furnished by said College free of charge, said description giving a full and complete statement of the time and place of sampling, of all marks on the bags or packages thereof, and of all the facts relating to the same, said description and statement shall be signed by the purchaser of the fertilizer, the person drawing the sample and the disinterested witness or witnesses as above provide.; and provided, further, that the purchaser, or purchasers, sending such sample, or samples, of fertilizer to said College for analysis shall withhold said descripton or descriptions, of said sample, or samples, until he has received from the said Maryland State College of Agrculture the report of the analysis of said fertilizer. Any person, or persons, receiving an analysis from the said College as required under this Act shall immediately thereafter forward to it the statement required by this Act to be made at the time of taking the sample or samples.

Sec. 10. That it shall be the duty of the Maryland State College of Agriculture to analyze upon request, without cost or charge, all samples of fertilizer sent to said College and taken in the manner prescribed in this Act. The said College, the State Chemist, or his assistants or agents, shall not demand of any purchaser so sending sample, or samples, for analysis any advice, information, or statement, as to any analysis appearing on the original unbroken packages, or bags, from which said sample or samples were taken, or the name or names of any individual, representative, agent, or corporation or firm from which said fertilizer, or fertilizers, were purchased; and it shall be the duty of the said College, through its duly authorized agent, the State Chemist, to at once make a full and complete analysis of the sample, or samples, received in accordance with this provision and within thirty (30) days thereafter return to such person, or persons, from whom the sample, or samples, were received a full and complete analysis of said sample or samples. It shall be unlawful for any individual, representative, or agent, of any corporation or firm, or any corporation or firm itself either directly, or indirectly, to have any communication with the said College, or its chemists, agents or representatives, or the sender of any sample to said College, regarding the analysis of any fertilizer, or fertilizers, sent to the said College by the purchaser or purchasers thereof for analysis until after the report of said analysis. The Maryland State College of Agriculture, the State Chemist, their agents, or representatives, shall not furnish any information, or communicate with any manufacturer of fertilizer, about any such sample submitted for analysis until after a report of the analysis so made shall have been duly furnished to the applicant for such analysis.

Sec. 11. That any purchaser of fertilizer who shall be injured, or defrauded, by the failure of the contents of any bag, barrel, or other package of fertilizer, or any fertilizer in bulk, to conform to the statement of the quantity, quality, marks, labels on or accompanying the same, or filed with the Maryland State College of Agriculture, or who shall purchase fertilizer branded, "pure bone" when the same is adulterated with

oyster shell, or other foreign matter, even if the analysis corresponds to the guaranteed analysis on the package, may recover from the seller, or sellers, thereof in an action of debt an amount equal to the purchase money of said fertilizer and cost of suit, and in case the purchase is made of an agent, or any person, or persons, residing out of the limits of the State of Maryland, or any company, or corporation, whose principal place of business is out of the State of Maryland, the purchaser may at his, or her, option proceed by attachment as now provided for by law in case of non-resident and absconding debtors, against any property, rights or credits, of any person, or persons, company, or corporation, furnishing said fertilizer when such property rights, or credits, can be found within the State of Maryland; provided, the purchaser of any fertilizer shall not be deemed to be defrauded by a shortage in the constituents of said fertilizer when the said shortage does not exceed 5% of the amount guaranteed, but on account of said shortage shall be entitled to recover as liquidated damages the amount of the commercial value of said shortage, provided, however, should said shortage be more than 5% of the commercial value guaranteed that the purchaser shall be entitled to recover as liquidated damages twice the amount of the shortage in commercial value and provided further should a shortage in one or more constituents exceed one-fifth of the guaranteed analysis the purchaser shall be entitled to recover as liquidated damages twice the commercial value of said shortage without any compensation being allowed for any excess in other constituent or constituents except however in no event shall the purchaser be entitled to recover an amount in excess of the purchase price of said fertilizer.

Sec. 12. That the inspection and brand fees provided for in this Act shall be paid to the Maryland State College of Agriculture, and disbursed by it, to cover the cost of the analysis, inspections, sampling, printing, and for the dissemination of information regarding the contents and the analysis of fertilizers subject to this Act, the use and compounding of commercial fertilizers, and the administration and the enforcement of the provisions of this Act.

Sec. 13. That the Board of Trustees of the Maryland State College of Agriculture shall have authority to establish rules and regulations in regard to the inspection, analysis, sale of fertilizer and fertilizer materials, and the publication of all information authorized herein, to the end that the provisions of this Act may be effectively administered and enforced.

Sec. 14. That the brand fee as provided in this Act shall not apply to any fertilizer mixed according to a formula furnished by a consumer; provided, in lieu of the registration, all packages of fertilizers shall be plainly marked, or tagged, on the outside of the package with the words "Mixed to Order", together with a statement thereon of the guaranteed analysis, and in all the other particulars said mixed fertilizer shall conform to the provisions of this Act.

Sec. 15. That every person, firm, corporation, or association, guilty of a violation of any of the provisions contained in Sections No. 2, 4, 5, 6, 7 and 9 of this Act, and every officer, manager, director, or managing agent of any such person, firm, corporation, or association, directly participating in such violation, or consenting thereto, shall be punishable by a fine of $100.00 for the first offense, and, upon a second conviction, shall be punished by a fine of $500.00 or imprisonment for not more than three months, or both, at the discretion of the Court. And it shall be the duty of the State's Attorneys of the several counties of this State to prosecute all violations of any of the provisions contained in said Sections Nos. 2, 4, 5, 6, 7 and 9 brought to their attention, said prosecutions to be in the name of the State of Maryland, and the penalty recovered, when paid, to be turned into the fertilizer fund of the Maryland State College of Agriculture.

Sec. 16. That if any person, firm, or corporation, subject to the provisions of this Act shall fail to file the statement required in Section No. 3 herein regarding the tons of fertilizer sold, and to pay the inspection fee, provided therefor in this Act, within sixty (60) days after the close of the calendar year, the same shall subject said person, firm, or corporation, to a penalty, upon conviction, of One Hundred Dollars, and Two Hundred Dollars for each subsequent week that said inspection fee remains unpaid. Prosecution therefor to be entrusted to the State's Attorneys as in the preceding section provided and brought in the name of the State of Maryland, and the penalty recovered when paid, to be turned into the fertilizer fund of the Maryland State College of Agriculture.

RULES TO SUPPLEMENT THE FERTILIZER LAW.

Adopted by the Trustees of the Maryland State College of Agriculture.

1. All applications for registration of fertilizer shall be made to the State Chemist, who shall issue certificates of registrations.
2. Annual Tonnage reports in regard to the sale of fertilizer shall be made to the State Chemist, who will have the same filed and tabulated.
3. All checks and money shall be paid to the College Treasurer or Accountant, who will issue his receipt therefor.
4. Farmers' samples for analyses under the Fertilizer Law shall be sealed by the use of one or more strips of gummed paper. The sampler to write his name upon the same. The seals to be furnished by the College through the office of the State Chemist.
5. REGISTRATION. The source of Nitrogen, Available Phosphoric Acid and Potash, when claimed respectively, shall be given separately. The sources or ingredients to be named in the order of their commercial importance.
6. ANNUAL TONNAGE REPORT. Each brand of fertilizer shall be reported separately. The resigtration fee ($10.00) covering an amount of that brand up to 100 tons. The additional tonnage, if any, is to pay the additional inspection fee of 10 cents per ton.
7. Fertilizers "mixed to order" shall include only those the formulas for which have been furnished by the consumer. The annual report need not separate the different orders, but may report all under the head, "mixed to order." The inspection fee being 10 cents per ton.

The new Fertilizer Law requires exactly the same guarantee on the bags as the old Law. The leading changes are as follows:

1. When registering their brands of fertilizer, manufacturers are required to state the sources of the different constituents be published later in the bulletins.
2. The Law makes it unlawful to sell a number of nitrogenous substances in their raw state, as they are poor fertilizers in that form. The old Law simply stated that the materials used should be in an available form. "Low Grade" fertilizers are to be so marked on the bags, as in the old Law. Fertilizers of a lower analyses than the following are low grade:

Acid Phosphate	14%
Phosphate and Potash	0-11-1
Ammoniated Phosphate	1-10-0
Complete Fertilizer	1-8-1

3. The term "Medium Grade" may be used on fertilizer containing the above analyses or better, but the use of the designation is not obligatory. When analysis is "High-Grade" (see 4,) may be so designated.
4. The words "High-Grade" may not be used on fertilizers analyzing less than the following:

Acid Phosphate	16%
Phosphate and Potash	0-13-1
Ammoniated Phosphate	3-10-0
Complete Fertilizer	2-10-2

The use of the term "High-Grade" is not obligatory.

5. Manufacturers when reporting the annual tonnage are to report each brand separately.
6. When a farmer desires to send a sample of fertilizer he has purchased, for analysis, he is to notify the manufacturer or his agent of his intention so to do after the fertilizer has been delivered to him, and allow the manufacturer or agent to have a representative present at the sampling. This is fully explained on the blank forms furnished for the purpose.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	American Agricultural Chemical	**Co., N. Y., N. Y.**										
37120	Acid Phosphate 14%	Ellicott City	.....	.....	.....	.....	.50	.....	14 42	14.00	$17.40	$16.80
37025	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	1.40	.....	16.26	16.00	19.79	19.20
37222	Acid Phosphate 12% (Low Gr.)	Baltimore	.....	.....	.....	.....	.60	.....	12.45	12.00	15.06	14.40
37104	Ammoniated Fertilizer	Baltimore	4.69	4.00	2.21	2.00	1.13	.....	8.02	8.00	53.95	47.60
37105	Ammoniated Phosphate	Baltimore	2.18	2.00	.....	.....	1.45	.....	11.94	12.00	30.17	28.40
37056	Ammoniated Phosphate "A"	Baltimore	1.18	1.00	.....	.....	.87	.....	10.29	10.00	20.96	19.00
37106	Ammoniated Phosphate "AA"	Annapolis	2.18	2.00	.....	.....	1.20	.....	10.29	10.00	28.09	26.00
37039	Ammoniated Fertilizer "AAA"	Baltimore	3.31	3.00	.....	.....	1.20	.....	10.02	10 00	35.67	33.00
37040	Ammoniated Fertilizer "AAAA"	Baltimore	4.10	4.00	.....	.....	1.48	.....	10.11	10 00	41.42	40.00
37169	Ammoniated Fertilizer "XXX"	Hampstead	1 71	1 50	.....	.....	1.10	.....	9.52	10.00	23.83	22.50
37026	Amm'd Super-Phos. (LowGrade)	Baltimore	1.13	1.00	.....	.....	1.25	.....	8 01	8.00	18.02	16.60
37041	Basic Lime Phosphate (L. Gr.)	Baltimore	.....	.....	.....	.....	2.17	1.00	13.09	13.00	16.14	15.80
37107	Dissolved Phosphate & Potash.	Baltimore	.....	.....	1 48	2.00	.80	.....	10.96	10.00	20.71	22.00
37233	Fine Ground Bone	Towson	3.16	3.00	.....	.....	*22.89	*22.88	.....	.....	35.85	34.73
37095	Fish Fertilizer	Baltimore	2 35	2.00	.....	.....	1.28	.....	10.20	10.00	29.20	26.00
37084	5-8-0 Fertilizer	Baltimore	4.78	5 00	.....	.....	.80	.....	8.33	8.00	43 78	44.60
37057	5-8-2 Fertilizer	Baltimore	5.05	5.00	2.33	2.00	.95	.....	8.02	8.00	57.00	54.60
37096	Pure Raw Bone	Baltimore	4.74	4.50	.....	.....	*22.36	*21.51	.....	.....	46.60	44.41
37058	7-6-0 Fertilizer	Baltimore	7.02	7.00	.....	.....	.62	.....	6.42	6.00	57.09	56.20
37212	Special Complete Fertilizer	Baltimore	1.19	1.00	1.87	2.00	1 50	.....	8.78	8.00	28.75	26.60
37230	3-8-3 Fertilizer	Baltimore	3.41	3.00	2.92	3.00	.63	.....	8.02	8.00	48.34	45.60
37202	Wizard Phosphate (Low Grade)	Baltimore	.77	.50	.....	.....	.90	.....	8.34	8.00	15.76	13.10

	A. A. C. Co., (Canton), Balto., Md.											
37184	Harrow Brand Crop Grower....	Thurmont.....	1.19	1.00	1.10	1.00	1.00	.....	9.76	8.00	$25.94	$21.60
37125	Potato & Vegetable Manure....	Colora.....	1.77	1.50	1.15	1 00	1 50	.....	10.07	10.00	30 82	27.50
	A. A. C. Co., (Detrick), Balto., Md.											
37172	Corn & Oats Fertilizer.....	Owings Mills	1.26	1.00	1.08	1.00	1.38	.....	9.62	9.00	26.31	22.80
37223	5-7-0 Fertilizer.....	Baltimore.....	4.40	5.00	.....	.....	.45	.....	9 16	7.00	41.97	43.40
37027	Gold Basis 1916.....	Baltimore.....	6.96	7.00	1.16	1.00	.85	.....	6.26	6.00	62 37	61.20
37043	Imperial Compound.....	Baltimore.....	1.33	1.00	1.10	1.00	1.58	.....	9.61	10.00	26 97	24.00
37097	Quick Step 1916	Baltimore.....	3.05	3.00	1.08	1.00	1.53	.....	9.10	9.00	38.28	36.80
3712i	Royal Crop Grower.....	Baltimore.....	2.01	2.00	1.06	1.00	1.05	.....	9.02	9.00	30.61	29.80
	A. A. C. Co., (Lazaretto), Balto., Md.											
37170	Ammoniated Bone.....	Hampstead.....	1.19	1.00	1.11	1.00	1.60	.....	9.16	8.00	25.51	21.60
37171	Farmers Choice	Stevens.....	1.18	1.00	1.16	1.00	1.70	.....	9.08	9.00	25.64	22 80
37240	Spec. Tobacco & Potato Fert...	Baltimore.....	3.21	3.00	1.10	1.00	1.00	.....	9.25	9.00	39.47	36 80
37231	Tomato Compound..... ...	Baltimore.....	1.77	1 50	1.12	1 00	.83	.....	10.22	10.00	30.58	27.50
	A. A. C. Co., (Reese), Balto., Md.											
37154	Tomato & Potato Phosphate....	Sharptown.....	3.26	3.00	.....	.....	1.50	.....	10.36	10.00	35 85	33.00
	A. A. C. Co., (Slingluff), Balto., Md.											
37012	Tobacco Plant Bed Fert. 10% 1916	Baltimore.... ...	9.50	10.00	1.10	1.00	1.02	.....	5.79	5.00	79.36	81.00
	A. A. C. Co., (Susquehanna), Balto., Md.											
37246	Crop Grower (Low Grade).....	Baltimore..	1.09	1.00	1.02	1.00	.60	.....	7.13	7.00	21.53	20.40
37093	Potato Phosphate 1916.....	Beltsville.....	3.09	2 50	.72	1.00	1 00	.....	9.60	8.00	37.15	32.10
	A. A. C. Co., (Wheeler), Rutland, Vermont.											
37258	Fish Guano.....	Baltimore.....	4.38	5.00	.....	.....	.85	.....	8.55	8.00	41.26	44.60
37185	General Crop Grower.	Hancock.....	1.09	1 00	.....	.....	.98	.....	10.50	10.00	20.62	19.00
37193	Potato Manure 1916	Baltimore.....	2.44	2.50	1.01	1.00	1.15	.....	10.33	10.00	34.99	34.50
	A. A. C. Co., (Zell), Baltimore, Md.											
37028	Economizer Phosphate.....	Baltimore.....	1.26	1.00	.80	1.00	1.47	.....	8.89	8.00	24.08	21.60
37173	Little Treasure (Low Grade)...	Laurel.....	1.16	1.00	1.12	1.00	.93	.....	8.39	7 00	24.16	20.40
37108	Special Compound 1916.....	Annapolis.....	3.07	3.00	1.21	1.00	1.10	.....	9.02	9.00	38.80	36.80
37109	Truck Compound 1916	Annapolis.....	2 59	2.50	1.16	1.00	1.08	.....	8 28	8.00	34.30	32.10
	American Fertilizing Co., Balto., Md.											
37030	Acid Phosphate H. G.....	Baltimore....	.....	.....	.....	.....	.72	.....	14.49	14.00	17.53	16.80
37241	Acid Phosphate H. G.....	Baltimore.....	.....	.....	.....	.....	.50	.....	16.48	16.00	19.88	19.20

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	American Fertilizing Co., Balto., Md.											
37194	Ammoniated Crop Compound...	Baltimore.....	1.35	1.00	2.02	2.00	1.15	.....	8.75	8.00	$30.51	$26.60
37098	Amm'd Spec. Formula (L. Gr.)	Baltimore.....	.70	.50	.74	1.00	4.40	.....	8.59	8.00	20.67	18.10
37059	Champion Ammoniated Phos....	Baltimore.....	1.86	2.00	.....	.....	1.80	.....	10.47	10.00	26.30	26.00
37029	Eagle Ammoniated Compound..	Baltimore..... ..	2.82	3.00	.....	.....	1.33	1 00	9.67	10.00	31.87	33.40
37065	Eagle Crop Grower.....	Baltimore.....	2.22	2.00	1.56	2.00	1.47	.....	8.43	8.00	34.05	33.60
37263	Fish & Bone Componnd...	.....	2.17	2.00	3.16	3.00	2.00	1.00	8.17	8.00	41.59	39.00
37000	Fish & Bone Special.....	Baltimore.....	2.08	2.00	.....	.....	2.27	.....	11.09	11.00	28.78	27.20
27213	Grain & Grass Grower.....	Baltimore.....	1.01	1.00	3.02	3.00	1.50	1.00	9.82	8.00	34.55	32.00
37078	Special Formula (Low Grade)..	Baltimore.....	.73	.50	1.86	2.00	1.35	.....	8.53	8.00	25.19	23.10
37001	Special Fish Guano.....	Baltimore..	1.16	1.00	.....	.....	1.48	.....	10.12	10.00	20.85	19.00
37270	Stable Manure Substitute.....	....	3.11	3.00	.....	.....	.60	1.00	7.50	7.00	31.01	29.80
	Armour Fertilizer Works, Inc.,	**Balto., Md.**										
37006	Acid Phosphate 16%.....	Baltimore.....	.....	.....	.....	.....	1.30	.....	16.08	16.00	19.56	19.20
37060	Star Phosphate 14%.....	Baltimore.....	.....	.....	.....	.....	1.65	....	14.61	14.00	17.86	16.80
37094	Bone Meal.....	Beltsville.....	3.16	3.00		.....	24.02*	22.00*	.....	.....	36.53	34.20
37203	Crop Grower	Baltimore.....	1.16	1.00	2.08	2.00	.90	.....	7.63	8.00	28.04	26.60
37253	5-8-0 Fertilizer.....	Baltimore.....	4.73	5.00	.....	.....	1.45	.....	7.79	8.00	43.04	44.60
37068	4-8-0 Fertilizer.....	Baltimore.....	3.67	4.00	.....	.....	1.12	.....	7.25	8.00	34.84	37.60
37007	4-8-2 Fertilizer.....	Baltimore.....	4.20	4.00	1.96	2.00	1 82	.....	8 48	8.00	50.11	47.60
37264	4-10-0 Fertilizer	Baltimore.....	4.13	4.00	.....	.....	1.65	.....	9.54	10.00	41.02	40.00
37079	Grain Grower	Baltimore.....	2.05	2.00	2.07	2.00	2.00	.....	8.39	8.00	35.57	33.60
37204	1-8-0 Fertilizer (Low Grade)....	Baltimore.....	1.23	1.00	.....	.....	1.33	.....	8.44	8.00	19.27	16.60

37069	1-10-0 Fertilizer	Baltimore	1.18	1.00			1.65		10.46	10.00	21.47	19.00
37008	7-6-1 Fertilizer	Baltimore	6.40	7.00	1.01	1.00	1.30		6.61	6.00	58.30	61.20
37009	10-5-0 Fertilizer	Baltimore	9.84	10.00			1.97		5.44	5.00	76.20	76.00
37010	3-8-1 Fertilizer	Baltimore	2.85	3.00	1.28	1.00	1.60		8.09	8.00	36.70	35.60
37214	3-8-3 Fertilizer	Baltimore	2.95	3.00	3.03	8.00	1.13		9.61	8.00	47.78	45.60
37237	3-8-0 Fertilizer	Baltimore	3.36	3.00			1.30		7.88	8.00	33.50	30.60
37113	3-10-0 Fertilizer	Baltimore	3.12	3.00			1.63		9.65	10.00	34.07	33.00
37011	2-10-0 Fertilizer	Baltimore	1.74	2.00			1.97		10.46	10.00	25.52	26.00
37205	2-12-0 Fertilizer	Baltimore	2.10	2.00			1.58		12.54	12.00	32.27	28.40
37061	Wh't, Corn & Oats Spec. (L.Gr.)	Baltimore	1.09	1.00	.92	1.00	1.25		6.85	7.00	20.95	20.40
37206	White's Tomato Special	Baltimore	1.69	1.50			1.25		9.08	9.00	23.23	21.30
37238	Tuscarora Amm'd Phos. (L.Gr)	Baltimore	1.35	1.00	.95	1.00	1.28		7.07	7.00	23.19	20.40
	Baltimore Fertilizer Co., Balto., Md											
37122	Honest Acid Phosphate 14%	Baltimore					.15		15.63	14.00	18.79	16.80
37070	Honest Ammoniated Bone	Baltimore	2.15	2.00			1.62		11.02	9.50	28.92	25.40
37013	Honest Bone Phosphate (L. G.)	Baltimore	.82	.50	.48	.25	1.47		8.92	7.00	19.43	13.15
37071	Honest Corn Grower	Baltimore	1.26	1.00			1.70		10.81	9.00	22.47	17.80
37174	Dissolved Bone	Bel Air	1.95	2.00			1.50		10.53	12.00	26.89	28.40
37014	Honest Guano 7%	Baltimore	6.02	7.00			1.42		7.51	6.00	51.72	56.20
37110	Honest Harvest (Low Grade)	Baltimore	1.47	1.25	.91	.25	1.15		8.81	9.00	25.87	20.80
37015	Honest Potato Grower (L. G.)	Baltimore	2.06	2.00	.54	.50	.82		8.54	8.00	27.73	26.10
37072	Honest Tobacco & Potato Grower	Baltimore	3.62	3.00			1.67		8.23	8.00	35.89	30.60
37016	Old Honesty (Low Grade)	Baltimore	1.08	1.00			1.50		8.94	8.00	18.89	16.60
	Baltimore Pulverizing Co., Balto., Md.											
37146	Farmers Favorite (Low Grade)	Baltimore	1.38	1.00	.84	1.00	2.30		6.28	7.50	22.32	21.00
37147	Pennimans Tobacco	Baltimore	1.54	2.00	1.34	1.00	2.00		7.01	9.00	26.69	29.80
37148	Practical Fertilizer (Low Grade)	Baltimore	1.62	1.00			.75	1.00	9.85	8.00	23.46	17.00
37145	S. C. Phosphate 16%	Baltimore					1.63		14.63	16.00	17.89	19.20
37271	Special Potato Mixture	Baltimore	2.22	2.00	.95	1.00	1.43		6.28	7.00	28.40	27.40
37151	Special Spring & Fall (L. G.)	Baltimore			1.03	1.00	2.35		7.37	8.00	14.46	14.60
37247	Special Strawberry Compound	Baltimore	4.54	4.00	.88	1.00	.63		6.48	7.00	44.21	41.40
37195	Truckers Choice	Baltimore	2.61	3.00	1.10	1.00	1.50		8.22	8.00	34.23	35.60
	Baugh & Sons Co., Baltimore, Md.											
37073	Accomac Special	Baltimore	7.02	7.00			3.37		7.47	6.00	59.45	56.20
37257	Accomac Special	Baltimore	7.02	7.00			.50		8.19	8.00	59.17	58.60
37215	Acid Phosphate High Grade	Baltimore					.43		15.67	14.00	18.89	16.80
37046	Acid Phosphate 16%	Baltimore					1.17		16.30	16.00	19.79	19.20

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K.O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Baugh & Sons Co., Baltimore, Md.											
37099	Ammoniated Phosphate 2-8-0	Baltimore	2.01	2.00	.....	.....	2.10	.....	10.54	8.00	$27 56	$23.60
37047	Ammoniated Sol. Alkaline (L.G.)	Baltimore	.87	50	.70	.50	3.70	.....	8.78	8.00	21.61	15.60
37234	Animal Base & Potash Comp	Baltimore	1.95	2.00	1.65	1.00	1.55	.....	9.29	9.00	33.67	29 80
37126	Bone Meal	Rising Sun	4 64	4.00	.....	.....	*20.28	*20.50	.....	.....	44.65	40.30
37114	Complete Animal Base	Baltimore	2.10	2.00	1.35	1.00	1.38	.....	10.10	10.00	34.12	31.00
37002	Corn & Oats Fertilizer	Baltimore	2.17	2.00	.....	.....	1.87	.....	10.31	10.00	28.31	26.00
37139	Corn & Oats Fertilizer	Woodbine	2.05	2 00	.....	.....	1.10	.....	10.20	10.00	27.03	26.00
37127	Dissolved Animal Bone	Preston	2.92	2.50	.....	.....	2.68	.....	13.98	13.00	38.29	33.10
37225	Double Eagle Phosphate	Baltimore	2.22	2 00	1.16	1.00	2.63	.....	10 09	8.50	34.50	29.20
37086	Durable Plant Food	Baltimore	2.47	2.00	2.34	2.00	1.30	.....	8.52	8.00	39.73	33.60
37115	Excelsior Guano	Baltimore	2.25	2.00	.....	.....	.80	.....	10.68	10.00	28.89	26.00
37128	Fish Mixture	Conowingo	2.22	2.00	1.14	1.00	1.85	.....	8.89	9.00	32.65	29.80
37140	General Crop Grower	Woodbine	1.67	1.00	.80	1.00	1 05	.....	9.12	8.00	27.05	21.60
37017	Grand Rapid H. G. Guano	Baltimore	3.28	3.00	1.48	1.00	1.40	.....	9 15	9.00	41.90	36.80
37003	Half & Half Mixture	Baltimore	1.64	1.50	.....	.....	7.95	.....	12.66	12.00	29.85	24.90
37100	High Grade Potato Grower	Baltimore	3.57	4.00	1.32	1.00	1.63	.....	8.59	8.00	42.55	42 60
37018	New Process 10% Guano	Baltimore	9.14	10.00	.....	.....	2.50	.....	6.74	5.00	73.07	76.00
37019	Norfolk Special Guano	Baltimore	6.93	7.00	.....	.....	2.35	.....	9.19	8.00	60.48	58.60
37116	No. 1 Mixture	Baltimore	2.29	2.00	.....	.....	1.35	.....	8.53	8.50	26.81	24.20
37235	No. 1 Mixture	Baltimore	1.93	2.00	.....	.....	.25	.....	9.81	10 50	25.38	26.60
37117	No. 2 Mixture	Baltimore	2.18	3.00	.....	.....	.88	.....	10.36	9.00	28.04	31.80
37080	Old Stand-By Dis. Animal Base.	Baltimore	2.13	2.00	.....	.....	.70	.....	11.73	12.00	29.27	28.40

37048	Peninsula Grain Producer	Baltimore	1.35	1.00			1.82		10.61	9.00	$22.91	$17.80
37004	Peruvian Guano Substitute	Baltimore	4.49	5.00	1.34	1.00	1.42		8.38	8.00	48.76	49.60
37226	Potato & Truck Special	Baltimore	3.17	3.50	1.01	1.00	.83		10 58	10 00	40.27	41.50
37005	Potato Guano 7%	Baltimore	6.48	7.00	.96	1.00	1.80		8.00	6.00	60.48	61.20
37074	Pure Dissolved Animal Bone	Baltimore	2.75	2.50			7.00		11.33	13.00	35.65	33.10
37152	Raw Bone Meal	Baltimore	4.37	4.00			*20.56	*20.50			42.93	40.30
37020	Special Potato Manure	Baltimore	2.18	2.00	1.29	1.00	1.22		10.10	10.00	34.32	31.00
37049	Tomato Compound	Baltimore	2.35	2.00	1.27	1.00	1.23		10.66	10.00	36.08	31.00
37087	Truckers 5%	Baltimore	5.36	5.00			.95		8.15	8.00	47.68	44.60
37050	Truckers Favorite	Baltimore	3 36	3.00			3.42		10.02	10.00	36.91	33.00
	Beckley Fertilizer Co., Half Way,	**Md.**										
37186	Bone Mixture	Half Way	1.74	1.50			.80		14.50	14.00	29.90	27.30
37187	Crop Grower	Half Way	1.25	1.00			.49		12.02	12.00	23.37	21.40
	Berg Company, Philadelphia, Pa.											
37175	Raw Bone	Fallston	4.23	3.64			*22.05	*22.00			42.84	38.68
	Bowker Fertilizer Co., Boston,	**Mass.**										
37249	7-8-0 Fertilizer	Baltimore	7.03	7.00			.75		8.34	8.00	59.52	58.60
	Bryant Fertilizer Co., Alexandria,	**Va.**										
37227	Acid Phosphate 16%	Baltimore					.33		16.49	16.00	19.86	19.20
37254	Ammoniated Dissolved Bone	Baltimore	3.14	3.00	1.14	1.00	3.45	1.00	8.43	8 00	39.18	36.00
37255	Bone Ammoniated	Baltimore	2.29	2.00			2.30	1.00	11.41	10.00	30 64	26.40
37216	Formula "E"	Baltimore	2.12	2.00	2.16	2.00	1.40	1.00	8.68	8 00	36.86	34.00
37217	Queen Ammoniated Bone	Baltimore	1.42	1.00	1.23	1.00	.68		9.36	8.00	27.59	21.60
37256	Slaughter House Bone	Baltimore	1.38	1.25			1.73		10.35	10.00	22.77	20.75
37218	Tomato Super-Phosphate	Baltimore	2.18	2.00	1.15	1.00	1.25	1.00	9.49	9.00	32.90	30.20
	Herbert Bryant's Son, Alexandria,	**Va.**										
37141	EconomyCom. Lime&Phos. (L.G.)	Silver Spring					2.15		10.65	11.00	13.21	13.20
37176	Standard Fish & Bone	Washington Grove	1.86	2 00			.85		10.07	10.00	25.44	26.00
	Central Chemical Co., Hagerstown,	**Md.**										
37269	Acid Phosphate	Hagerstown					.32		16.26	16.00	19.57	19.20
37189	Acme Brand (Low Grade)	Hagerstown	1.28	1.00			.45		9.47	8.00	20.50	16.60
37190	Bone Compound	Hagerstown	1.62	1.50			.80		13.51	14.00	27.87	27.30
37191	Dissolved Bone Compound	Boonsboro	2.27	2.25			.80		13.59	13.00	32.52	31.35
37192	Special Bone Mixture	Hagerstown	1.67	2.00			.70		10.55	10.00	24.63	26.00
37182	Super-Phosphate	Williamsport	1.02	1.00			1.00		11.74	12.00	21.63	21.40

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Chesapeake Chemical Co., Balto., Md.											
37101	Acid Phosphate 14%.....	Baltimore.....	.....	.....	.....	.....	.95	.....	14.99	14 00	$18.18	$16.80
37102	Acid Phosphate 16%	Baltimore.....	....	.....	.....	.....	.80	.....	17.02	16.00	20.58	19.20
37031	Buyers Favorite.....	Baltimore.....	1.21	1.00	.....	.....	2.05	.....	10.02	10.00	21.31	19.00
37228	Grangers Phosphate.....	Baltimore.....	2.24	2.00	.....	.....	.60	.....	10.32	10.00	28.30	26.00
37081	Money Producer.....	Baltimore.....	1.23	1.00	1.12	1.00	1.43	.....	9.97	8.00	26 74	21.60
	Josiah Cope & Co., Baltimore, Md.											
37207	Ammoniated Fertilizer A.....	Baltimore.....	1 25	1.00	.....	.....	1.15	.....	11.12	10.00	22.55	19.00
37252	1-8-2 Fertilizer.....	Baltimore.....	1.14	1.00	2.08	2.00	2.00	.....	8.23	8.00	29.06	26.60
	E. A. Corey, Worton, Md.											
37075	High Grade Potato No. 2.....	Baltimore.....	5.07	5.00	4.58	5.00	2.40	.....	8.74	8 00	69.84	69.60
	L. E. P. Dennis & Son, Crisfield, Md.											
37129	Klondike.....	Cambridge..... ..	1.01	1.00	.....	.....	1.25	.....	9.02	9.00	18.39	17.80
37459	No. 1 Fish Fertilizer.....	Hurlock, (J. B. A.)	2.64	3.00	.....	.....	2.50	.....	8.87	8.00	30.12	30 60
37130	No. 2 Fish Mixture	Cambridge.....	1.83	2.00	.....	.....	1.13	.....	8.02	8.00	22.88	23.60
37155	Special Compound.....	Crisfield	4.78	5.00	.....	.....	1.70	.....	8.98	8.00	44.92	44.60
	Dudley & Carpenter, Baltimore, Md.											
37032	Special Tobacco Plant Guano ...	Baltimore.....	9.42	10.00	1.29	1.00	1.30	.....	5.23	5.00	80.19	81.00
	Edelen Bros., Baltimore, Md.											
37242	Special Tobacco Guano	Baltimore.....	3.16	3.00	1.02	1.00	1.23	.....	8.16	8.00	37.50	35.60

37200	Special Truckers Guano	Baltimore	2.95	3.00	1.35	1.00	1.25		8.15	8.00	37.68	35.60
37268	Special Wheat & Grain Mixture	Baltimore	1.40	1.00	1.05	1.00	1.08		8.39	8.00	25.55	21.60
	Eureka Chemical Co., Baltimore, Md.											
37131	Corn & Potato Fertilizer (L.G.)	Rising Sun	1.18	1.00	.77	.75	1.05		8.07	8.00	22.21	20.35
37177	Dissolved Animal Base	Perryman	1.74	1.50			1.60		10.88	9.00	25.88	21.30
37132	Fish & Potash (Low Grade)	Rising Sun	.61	.50	.38	.25	1.05		8 04	8.00	16.24	14.35
37133	Grain & Grass (Low Grade)	Rising Sun	1.02	1.00	.51	.50	.95		7.02	7.00	18.49	17.90
37111	Potato & Vegetable	Baltimore	2.02	2.00	1.04	1.00	1.63		8.06	7.00	29 66	27.40
	Eureka Fertilizer Co., Perryville, Md.											
37156	Acid Phosphate	Perryville					1.48		16.09	16.00	19.61	19.20
37157	No.14 Fish & Bone Mix. (L. G.)	Perryville	.80	.50			1.00	1.00	10 52	10.00	18.62	15.90
	W. S. Farmer & Co., Baltimore, Md.											
37158	Dissolved S. C. Phosphate	Parsonsburg					.40		14.02	14.00	16.90	16.80
37063	Acid Phosphate High Grade	Baltimore					.90		16.02	16.00	19.40	19.20
37051	All Crop Mixture	Baltimore	3.21	3.00			1.42		10.07	10.00	35.12	33.00
37243	All Crop Mixture No. 2	Baltimore	2.15	2.00			.93		10.03	10.00	27.46	26.00
37062	Anne Arundel Trucker 1916	Baltimore	4.73	5.00	1.08	1.00	1.00		8.44	8.00	49.04	49.60
37224	Clyde Brand Fertilizer	Baltimore	1.11	1.00	1.22	1.00	.90		8.50	8.00	24 43	21.60
37052	General Crop Grower (L. Gr.)	Baltimore	1 09	1.00	1.15	1.00	1.40		7.04	7.00	22.39	20.40
37053	Harvest Queen	Baltimore	1.91	1.50	1.38	1.00	1.30		10.02	10.00	32.81	27.50
37244	Pelican Guano (Low Grade)	Baltimore	.75	.50	.55	1.00	.83		8.41	8.00	18.42	18.10
37064	Standard Phosphate	Baltimore	2.51	2.50	1.14	1.00	1.50		9.88	10.00	35.73	34.50
	Farmers Fertilizer & Feed Co., Westminster, Md.											
37142	Indian Chief Fertilizer	New Windsor	1.13	1.00			.70		11.26	11.00	21.70	20.20
	Farmers & Planters Co., Salisbury, Md.											
37159	Early Vegetable	Princess Anne	5.05	5.00			1.95		8.78	8.00	46.67	44.60
37134	Fish Mixture	Preston	1.47	2.00			2.50		10.25	10.00	23.59	26.00
37135	General Crop Grower	Preston	1.23	1.00			1.55		10.47	11.00	21.79	20.20
37168	High Grade 7%	Salisbury	6.11	7.00			1.75		7 02	6.00	51.89	56.20
37160	Special Fish Mixture	Princess Anne	3.07	2.50			1.31		9.04	9.00	32.86	28.30
37137	Truckers Mixture	Preston	3.26	3.50			.35		10.49	9 00	35.55	35.30
	Federal Chemical Co., Louisville, Ky.											
37181	Daybr'k Tenn. Br'n Phos. Rock	Sparks					32.64*	32.00*				
	Griffith & Boyd Co., Baltimore, Md.											
37208	Acid Phosphate 14%	Baltimore					.65		14.33	14.00	17.33	16.80

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Griffith & Boyd Co., Baltimore, Md.											
37082	Acid Phosphate High Grade 16%	Baltimore	.....	.....	.....	.....	1.25	.....	15.02	16.00	$18.27	$19.20
37248	Acid Phos. Monarch Brand (L.G.)	Baltimore	.....	.....	.....	.....	.48	.....	13.56	12.00	16.37	14.40
37196	Blood & Bone Mixture	Baltimore	4.57	4.00	.....	.....	.95	.....	9.65	9.00	43.95	38.80
37232	Cereal Mixture (Low Grade)	Baltimore	1.64	1.00	.....	.....	1.25	.....	8.15	8.00	21.76	16 60
37209	Cereal Plant Food (Low Grade)	Baltimore	1.28	1.00	.92	.50	1.00	.....	8.24	8.00	23.35	19.10
37022	Farmers Bone Mixture	Baltimore	1.93	2.00	.....	.....	1.32	.....	9.17	9.00	25.04	24.80
37023	Farmers Potato & Tomato	Baltimore	2.08	1.50	1.36	1.00	3.05	.....	8.27	8.00	32.50	25.10
37197	Fish, Bone & Potash (Low Gr.)	Baltimore	2.01	1.75	.60	1.00	.82	.....	9.46	7.00	28.75	25.65
37024	Fish & Bone Mixture (Low Gr)	Baltimore	1.55	1 75	.....	.....	2.15	.....	7.03	7.00	20.15	20.65
37198	Harvest Queen Brand	Baltimore	1.67	1.00	.40	1.00	1.70	.....	9.12	9.00	25.31	22.80
37088	Nitro Crop Feeder (Low Grade)	Baltimore	9 52	9.00	.40	.50	.33	.....	1.77	1.50	70.89	67.30
37076	Peerless Mixture (Low Grade)	Baltimore	.60	.50	.....	.....	2.00	.....	8.68	8.00	15.42	13.10
37199	Pure Dissolved Animal Bone	Baltimore	2.42	2.50	.....	.....	1.68	.....	10.91	10.00	30.70	29.50
37266	Queen Guano	.....	1.71	1.00	.....	.....	.80	.....	8.60	9.00	22.61	17.80
37236	Special Royal Guano	Baltimore	1.62	1.00	1.16	1.00	1.15	1.00	8.09	8.00	27.31	22.00
37118	Spring Crop Substitute (L. G.)	Baltimore	1.59	2.00	.....	.....	.75	.....	6.02	6.50	18.65	21.80
37245	Truckers Manure Substitute	Baltimore	2.71	3.50	.....	.....	1.10	.....	6.09	5.00	26.72	30.50
37089	Vegetable Bone Fertilizer	Baltimore	3.89	3.00	.54	1.00	1.63	.....	8.48	8.00	40.76	35.60
37083	Vegetable Mixture	Baltimore	3.36	3.00	.....	.....	1.83	.....	8.53	8.00	34.49	30.60
	Griffith & Turner Co., Balto., Md.											
37119	Amm'd Alk. Plant Food (L. G.)	Baltimore	1.11	1.00	.76	1.00	1.18	1.00	8.94	6.50	$22.77	20.20

	Hampstead Fertilizer Co., Hampstead, Md.											
37178	Acid Phosphate	Hampstead					1.95		16.02	16.00	19.61	19.20
37179	Grain & Grass Grower	Hampstead	2.12	2.00			1.90		8.76	10.00	26.11	26.00
37180	Honesty (Low Grade)	Hampstead	1.59	1.00	.10	.50	1.33		8.81	8.00	22.73	19.10
	S. M. Hess & Bro., Inc., Phila., Pa.											
37161	Ammoniated Grain Grower (L.G.)	Pocomoke City	1.13	1.00			.95		7.48	8.00	17.27	16.60
37162	Fish & Potato Manure	Sharptown	2.27	2.00	1.07	1.00	1.45		9.87	9.00	33.66	29.80
37138	Market Gardeners Manure	Rhodesdale	4.79	5.00			.45		9.67	8.00	45.31	44.60
37163	Potato Crop Grower	Pocomoke City	2.20	2.00			1.10		8.07	8.00	25.52	23.60
37250	Reliable Super-Phosphate	Baltimore	2.44	3.00			1.00		10.01	10.00	29.49	33.00
37210	Special Corn Manure 1916	Baltimore	1.16	1.00	1.10	1.00	.90		9.05	9.00	24.84	22.80
37164	Standard Super-Phosphate	Pocomoke City	1.55	1.00			.65		10.06	10.00	23.18	19.00
	W. H. Hood, Mt. Airy, Md.											
37183	Special Mixture	Mt. Airy	1.25	1.00			2.60		11.11	9.00	23.12	17.80
	Horsey, Roe & Co., Greensboro, Md.											
37165	Acid Phosphate	Greensboro					.55		16.14	16.00	19.48	19.20
37166	Special Mixture	Greensboro	3.40	3.00			1.15		11.76	12.00	38.37	35.40
37167	2-10-0	Greensboro	2.78	2.00			.60		9.76	10.00	31.41	26.00
	Hubbard Fertilizer Co., Baltimore, Md.											
37033	Acid Phosphate 16%	Baltimore					2.25		16.30	16.00	20.01	19.20
37262	Ammoniated Fertilizer		3.41	3.00			1.38		10.02	10.00	36.44	33.00
37229	Ammoniated Fertilizer	Baltimore	4.08	5.00			.60		6.33	6.00	36.40	42.20
37124	Columbia Phosphate (Low Grade)	Ellicott City	1.62	1.00			2.05		8.01	8.00	21.77	16.60
37143	English Compound	Woodbine	.96	1.00	1.04	1.00	.65		7.48	8.00	21.16	21.60
37044	Excelsior Mixture	Baltimore	2.58	2.00			2.42		10.16	10.00	31.22	26.00
37261	Farmers IXL Fertilizer	Baltimore	2.12	2.00	2.61	2.00	.50		8.67	8.00	38.49	33.60
37090	5-8-0 Fertilizer	Baltimore	5.05	5.00			1.68		8.01	8.00	45.63	44.60
37091	5-7-2 Fertilizer	Baltimore	5.09	5.00	1.52	2.00	1.30		7.71	7.00	53.00	53.40
37055	5-6-0 Fertilizer	Baltimore	4.88	5.00			1.42		6.73	6.00	42.81	42.20
37035	Oriental Guano	Baltimore	1.04	1.00			3.62		10.15	10.00	20.91	19.00
37092	Potato Fertilizer	Baltimore	5.07	5.00	1.23	1.00	.68		8.31	8.00	51.88	49.60
37153	Pure Bone Meal	Baltimore	4.64	4.50			23.16*	22.50*			46.38	45.00
37045	7-6-0	Baltimore	6.77	7.00			2.00		5.56	6.00	54.86	56.20
	M. P. Hubbard & Co., Inc., Balto., Md.											
37211	Animal Fish Amm'd Compound	Baltimore	3.41	3.00	2.38	2.00	2.75		9.84	8.00	48.68	40.60
37036	Big Crop Compound	Baltimore	4.10	4.00			1.78		8.58	8.00	39.71	37.60

*Total Phosphoric Acid.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	M. P. Hubbard & Co., Inc., Balto., Md.											
37272	Big Jim Compound (Low Grade)	Baltimore	.70	.50	1.03	1.00	.30	.....	8.58	8.00	$20.47	$18.10
37230	Celebrated Phosphate	Baltimore	2.01	2.00	1.96	2.00	2.20	.....	8.27	8.00	34.67	33.60
37220	Dissolved Phosphate	Baltimore	.....	.....	.....	.....	.90	.....	15.68	16.00	19.00	19.20
37077	Domino Compound	Baltimore	2.03	2.00	1.24	1 00	1.07	.....	7.22	8.00	29.50	28.60
37221	Ever Ready Compound	Baltimore	1.01	1.00	.....	.....	.55	.....	11.34	10.00	20.90	19.00
37103	Good & Cheap Compound	Baltimore	1.33	1.00	1.22	1.00	.93	.....	8.95	8.00	26 52	21 60
37038	Great Harvest	Baltimore	2.02	2.00	.....	.....	1.55	.....	9.70	10.00	26.40	26.00
37251	Slaughter House Formula	Baltimore	2.18	2.00	.....	.....	2.80	.....	12.26	13.00	31.09	29.60
	Lakeland Phosphate Co., Lakeland, Florida.											
37633	Natursown Ground Phos. Rock	Salisbury	.....	.....	.....	.....	*31.88	*32.00	.....	.....	.....	.....
	Lancaster Chemical Co., Lancaster, Pa.											
37687	No. 5 Flag Brand	Perryville	1.37	1.50	.....	.....	.88	.....	10.80	10.00	22.90	22.50
37688	Wheat & Grass Fertilizer	Perryville	.78	1.00	.....	.....	.75	.....	10.06	10.00	17.88	19.00
	Lister's Agricultural Chemical Works, Newark, N. J.											
37576	Atlas Brand Fertilizer 1916	Baltimore	4.69	5.00	.....	.....	.75	.....	8.06	8.00	42.80	44.60
37728	Buyers Choice Acid Phosphate	Baltimore	...	.....	.....	.....	.40	.....	14.74	14.00	17.77	16.80
37577	Corn & Potato Fertilizer	Baltimore	2.46	2.50	1.12	1.00	1.10	.....	8.22	8.00	33.12	32.10
37578	Crescent Ammoniated Phosphate	Baltimore	2.13	2.00	.....	.....	1.19	.....	10.01	10.00	27.40	26.00
37579	Excelsior Guano	Baltimore	3.09	3.00	.....	.....	1.55	.....	10.02	10.00	34.27	33.00
37503	Fish Brand Fertilizer	Baltimore	1.66	1.50	.....	.....	1.05	.....	10.02	10.00	24.06	22.50
37515	Golden Sheaf 1916 (Low Grade)	Baltimore	.67	.50	.94	1.00	1.30	.....	8.04	8.00	19.56	18.10

37552	Potato Manure 1916	Baltimore	5.12	5.00	1.32	1.00	.75	.....	8.02	8.00	$52.36	$49.60
37765	Soil Improver (Low Grade)	Baltimore	1 03	1.00	.....	.....	.80	.....	8.13	8.00	17.29	16.60
37504	Special Crop Producer	Baltimore	1.19	1.00	1.03	1.00	1.20	.....	8.04	8.00	23.61	21.60
37779	Standard Pure Super-Phosphate	Baltimore	2.47	3.00	1.12	1.00	.85	.....	9.19	9.00	34.36	36.80
37758	2-8-3 Fertilizer	Baltimore	2.17	2.00	3.30	3.00	.55	.....	8.02	8.00	41.53	38.60
37780	Valley Brand Fertilizer 1916	Baltimore	1.86	1.00	.82	1.00	1.60	.....	9.83	10.00	29.56	24.00
	Martin Fertilizer Co., Phila., Pa.											
37662	Acid Phosphate	Sykesville	.....	.....	.....	.....	.90	.....	17.51	16.00	21.19	19.20
37565	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	1.25	.....	17.06	16.00	20 72	19.20
37791	Ammoniated Phosphate 4-8-0	.....	3.53	4.00	.....	.....	1.65	.....	8.66	8.00	35.76	37.60
37634	Ammoniated Phosphate (L. Gr.)	Rising Sun	1.02	1.00	.....	.....	2.60	.....	8.08	8.00	17.88	16.60
37792	Ammoniated Phosphate	.....	2.22	3.00	.....	.....	.88	.....	7.58	8.00	24.99	30.60
37561	Ammoniated Phosphate	Baltimore	4.64	5.00	.....	.....	2.93	.....	8.16	7.00	43.44	43.40
37743	Ammoniated Phosphate 2-8-0	Baltimore	2.58	2.00	.....	.....	1.58	.....	8.46	8.00	28 84	23.60
37729	Ammoniated Phosphate	Baltimore	2.75	2.00	.....	.....	1.90	.....	10.18	10.00	32.23	26.00
37506	Bull Head Fertilizer	Baltimore	3.05	3.00	1.16	1.00	3.00	.....	7.77	8.00	37.67	35.60
37507	Corn & Cereal Special	Baltimore	1.95	2.00	.86	1.00	3.75	.....	7.93	8.00	28.97	28.60
37524	Crop Producer	Baltimore	1.27	1.25	.....	.....	3.03	.....	10.01	10.00	22.11	20.75
37508	Early Truck & Vegetable Gro.	Baltimore	3.65	4.00	1.01	1.00	2.80	.....	8.63	8.00	42.08	42.60
37730	Pure Dissolved Bone	Baltimore	1.93	2.00	.....	.....	1.95	.....	11.68	12.00	28.31	28.40
37517	Pure Dissolved Animal Matter	Baltimore	2.56	2.00	.....	.....	4.90	.....	10.13	12.00	32.04	28.40
37621	Pure Raw Bone	Ellicott City	4.95	4.50	.....	.....	*22.65	*21.96	.....	.....	48.24	44.68
37635	Sure Grower	Rising Sun	1.19	1.00	1.06	1.00	2.85	.....	7.67	8.00	23.97	21.60
	Massey & Kilbourne, Chestertown, Md.											
37636	Trustworthy Fertilizer	Chestertown	2.03	2.00	.....	.....	1.25	.....	9.27	10.00	25.83	26.00
	G. O. Maynard & Co., Balto., Md.											
37580	High Grade Truckers Pride	Baltimore	3.77	4.00	.....	.....	1.05	.....	8.43	8.00	36.93	37.60
	Medford Fertilizer Works, Medford, Md.											
37663	No. 1 Bone	Medford	1.48	1.25	.....	.....	1.05	.....	10.63	9.00	23.54	19.55
37664	No. 2 Bone	Medford	2.05	2.00	.....	.....	1.45	.....	14.70	13.00	32.57	29.60
	F. Mehring, Keymar, Md.											
37665	Wheat & Grass Producer	Bruceville	1.45	1.25	.....	.....	1.60	1.00	15.14	13.50	28.64	25.35
	Miller Fertilizer Co., Balto., Md.											
37769	Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	.13	.....	14.28	14.00	17.17	16.80
37622	Farmers Profit	Ellicott City	1.79	1.75	.....	.....	1.50	.....	9.13	9.00	24.09	23.05

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Miller Fertilizer Co., Balto., Md.											
37774	Harvest Queen Fertilizer (L. G.)	Baltimore	1.40	1.25	.80	.75	1.13	.....	8.02	8.00	$23.83	$22.10
37623	Hustler Phosphate (Low Grade)	Ellicott City	1.09	1.00	.52	.50	1.80	.....	8.40	8.00	21.03	19.10
37703	No. 1 Hustler Phosphate	Alesia	1.09	1.00	1.04	1.00	1.13	.....	7.75	8.00	22.58	21.60
37797	M. B. S. Fertilizer (Low Grade)	Hancock	.92	.75	.....	.....	1.40	.50	7.24	7.00	15.69	13.85
37625	Potato & Vegetable Grower	Ellicott City	2.02	2.00	1.04	1.00	1.60	.....	7.52	8.00	29.00	28.60
37535	No. 1 Potato & Vegetable Grow.	Baltimore	4.37	4.50	1.18	1.00	.85	.....	8.78	8.00	47.37	46.10
37536	No. 1 Special	Baltimore	2.02	2.00	.....	.....	1.75	.50	10.14	10.00	27.01	26.20
37537	Pimlico Fertilizer	Baltimore	3.07	3.00	..	.....	1.40	....	8.02	8.00	31.67	30 60
37715	Quarter Mixture (Low Grade)	Hancock	.43	.25	.34	.25	1.33	.50	9.16	9.00	16.23	14.00
37748	Special Tobacco Grower	Baltimore	1.79	2.00	1.07	1.00	1.78	.....	7.86	7.00	28.02	27.40
37538	Standard Phosphate	Baltimore	2.95	3.00	1.35	1.00	1.70	.....	6.30	8.00	35.64	35.60
37716	W. G. Phosphate (Low Grade)	Hancock	.68	.50	.53	.50	1.03	.50	7.23	7.00	16.50	14.60
	J. B. Nichols & Son, Baltimore, Md.											
37567	Farmers Friend Fertilizer	Baltimore	4.54	4.00	1.18	1.00	2.20	.....	8.94	7.00	49.29	41.40
	Nitrate Agencies Co., New York, N. Y.											
37626	Acid Phosphate High Grade 16%	Baltimore	.....	.....	.....	.....	1.15	.....	16 03	16.00	19.47	19.20
37681	Notalco Pure Ground Bone	Baltimore	4.20	4.00	.....	.....	*22.51	*22.88	.....	.....	42.91	41.73
37627	Ground Bone 3½%	Baltimore	3.67	3.50	.....	.....	*24.59	*22.88	.....	.....	40.44	38.23
37628	Tankage 10%	Baltimore	10.02	10.00	.....	.....	* 2.06	* 4.57	.....	.....	71.38	72.74
	G. Ober & Sons Co., Baltimore, Md.											
37558	Acid Phosphate High Grade 16%	Baltimore	.....	.....	.....	.....	.40	.....	16.47	16.00	19.84	19.20

37731	Avondale Amm'd Dissolved Bone	Baltimore	2.13	2.00	1.10	1.00	1.45	.....	8.02	8.00	$30.61	$28.60	
37766	Dissolved Animal Bone	Baltimore	3.63	3.00	.....	.....	4.65	.....	11.83	10.00	41.47	33.00	
37624	Dissolved Bone Phosphate	Baltimore	.....	.....	.....	.....	1.13	.....	13.66	14.00	16.62	16.80	
37799	Electro Compound	.....	1.31	1 00			1.07	.....	11.11	10.00	22.93	19.00	
37800	Farmer's Mixture	.....	1.33	1.00	2.12	2.00	1.35	.....	9.30	9.00	31.61	27.80	
37541	Farmers Standard Amm'd Phos.	Baltimore	2.06	2.00	2.11	2.00	1.70	.....	8.90	9.00	36.33	34.80	
37767	Fish & Bone Mixture	Baltimore	3.05	3.00	.....	.....	1.28	.....	9.56	9.00	33.33	31.80	
37525	Fruit & Vine Truck Guano	Baltimore	4 81	5.00	1.95	1.00	1.55	.....	7.11	7.00	52.57	48.40	
37739	Golden Seal Tobacco Guano	Baltimore	2.85	3.00	1.08	1.00	1.45	.....	8.78	8.00	36.47	35.60	
37704	Independ't Amm'd Super-Phos.	Towson	1.52	1.00	1.14	1.00	1.35	.....	8.85	8.00	27.50	21.60	
37801	Liberty Fish Guano	.....	1.52	1.25	.....	.....	1.22	.....	13.44	13.00	27.26	24 35	
377 5	Pure Raw Bone Meal	Baltimore	4.52	4.50	.....	.....	*22.00	*21 00	.....	.....	44.84	44.10	
37526	Royal Fish & Potash Compound	Baltimore	2.29	2 00	1.28	1 00	1.05	.....	9.04	9.00	33.70	29.80	
37542	Soluble Amm'd Super-Phosphate	Baltimore	2.20	2.00	2 12	2.00	1.80	.....	7.84	8 00	36.13	33.60	
37510	Special Tobacco 10% Fertilizer	Baltimore	9.96	10.00	.....	.....	2.15	.....	5.56	4 00	77.25	74.80	
37543	Sun Beam Guano	Baltimore	2.30	2.00	.....	.....	1.48	.....	10.82	10.00	29.67	26.00	
37749	Tampa Acid Phosphate (L. G.)	Baltimore	.....	.....	.....	.....	.48	.....	14.25	12.00	17.20	14.40	
	Patapsco Guano Co., Baltimore, Md.												
37705	Acid Phosphate	Cockeysville	.....	.....	.....	.....	.95	.....	16.36	16.00	19.82	19.20	
37554	Blood, Bone & Potash (L. Gr.)	Baltimore	1.08	.50	1.02	1.00	1.45	.....	8.91	8.00	23.83	18.10	
37527	Coon Brand Guano 1916	Baltimore	1.13	1.00	.77	1.00	1.60	.....	9.03	9.00	23.24	22.80	
37568	Corn & Grass Fertilizer 1916	Baltimore	1 66	1.50	1.12	1.00	1.15	.....	10.15	10.00	29.86	27.50	
37706	Raw Bone	Cockeysville	5.07	4.50	.....	.....	*21.93	*21.51	.....	.....	43.65	44.41	
37740	S. C. Dissolved Phosphate	Baltimore	.....	.....	.....	.....	.65	.....	14.30	14.00	17.29	16 80	
	Peerless Fertilizer Co., Chestertown, Md.												
37637	Acid Phosphate High Grade 16%	Chestertown	.....	.....	.....	.....	.73	.....	17.65	16.00	21.33	19.20	
37638	Fish Mixture	Chestertown	2.71	2.00	.....	.....	2.30	.....	7.50	8.00	28 89	23.60	
37640	Sweet Potato Special	Chestertown	3.04	3.00	.....	.....	1.25	.....	8.70	8.00	32.22	30.60	
	Piedmont-Mt. Airy Guano Co., Baltimore, Md.												
37689	Levering's Excelsior	Federalsburg	1.14	1.00	1.10	1.00	1.10	.....	6.07	8.00	21.20	21.60	
37595	Levering's Harvest Queen	Baltimore	1.69	1.00	2 08	2.00	.95	.....	8.69	8.00	33.04	26.60	
37589	Levering's Standard	Beltsville	1.89	2.00	.....	.....	1 00	.....	8.29	8.00	23 58	23.60	
37590	Peerless Phosphate (L. Gr.)	Beltsville	1.18	1.00	.....	.....	1.25	2.00	8.27	8.00	18.68	17.40	
37458	Peerless Phosphate (L. Gr.)	Rockville (J.R.L.)	1.02	1.00	.....	.....	.93	2.00	7.92	8.00	17.01	17.40	
37690	Piedmont Acid Phosphate	Federalsburg	.....	.....	.....	.....	.75	.....	14.04	14.00	17.00	16.80	
37789	Piedmont Acid Phosphate 16%	.....	.....	.....	.....	.....	1 00	.....	16.74	16.00	20.29	19.20	

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Piedmont-Mt. Airy Guano Co., Balti	**more, Md.**										
37604	Piedmont Challenge Fertilizer..	Baltimore.....	4.28	5.00	.....	.....	1.40	.....	9.76	8.00	$42.23	$44.60
37591	Piedmont Dis. Animal Bone....	Beltsville.....	2.80	2.50	.....	.....	1.75	.....	9.82	10.00	32.08	29.50
37718	Piedmont Economy (L. Gr.)....	Mt. Airy.....	.39	.25	.....	.....	1.00	.....	9 22	10.00	14.19	13.75
37505	Piedmont Fish Guano.....	Baltimore.....	2.24	2.00	.....	.....	1.00	.....	9.65	10.00	27.66	26.00
37605	Piedmont Golden Eagle.....	Baltimore.....	2.17	2.00	1.02	1.00	1.25	.....	9.48	9.00	32.17	29.80
37691	Piedmont Plow Brand.....	Federalsburg	1.69	2.00	2.14	2.00	1.00	.....	7.64	8.00	32.10	33.60
37759	Piedmont Raw Bone Mixture...	Baltimore.....	1.09	1.25	1.12	1.00	1.63	.....	7.41	8.00	22.77	23.35
37692	Piedmont Raw & Dis. Bone	Federalsburg	3.19	3.00	.....	.....	*23.35	23.00*	.....	.....	36.34	34.80
37555	Piedmont Special Crop Grower..	Baltimore..... ...	1.08	1.00	.....	.....	1.38	.....	10.05	10.00	20.17	19.00
37606	Piedmont Special Fertilizer.....	Baltimore.....	3.29	4.00	.....	.....	1.40	.....	9.06	8.00	34.46	37.60
37736	Piedmont $2\frac{1}{2}$-8-2 Fertilizer	Baltimore.....	2.70	2.50	1.72	2.00	1 10	.....	8 07	8.00	37.62	37.10
37581	Piedmont Utility Fertilizer.....	Baltimore.....	2.18	2.00	.....	.....	1.40	.....	10.02	10.00	27.84	26.00
37717	Standard Dissolved Bone Phos..	Mt. Airy.....	1.13	1.00	.....	.....	1.35	2.00	10.32	10.00	20.83	19 80
	Pollock Fertilizer Co., Balto., Md.											
37596	Ammoniated AAA.....	Baltimore.....	3.29	3.00	.....	.....	1.25	.....	10.02	10.00	35.55	33.00
37556	High Grade Super Phosphate...	Baltimore.....	.....	.....	.....	.....	.75	.....	16.31	16.00	19.72	19.20
37631	Corn & Oats Spec. 1916 (L. Gr.).	Baltimore.....	.73	.50	.94	1.00	1.00	.....	8.18	8.00	20.03	18.10
37776	Corn, Wheat, & Tomato Guano.	Baltimore.....	1.09	1.00	.75	1.00	.76	.....	8.64	8.00	22.05	21.60
37512	Special Potato & Tobacco 1916..	Baltimore.....	2.02	2.50	1.04	1.00	1.43	.....	8.37	8.00	29.95	32.10
	Ramsburg Fertilizer Co., Frederick,	**Md.**										
37666	Ammoniated Bone.....	Frederick..... ...	1.33	1.00	.....	.....	2.45	.....	11.13	11.00	23.65	20.20
37667	Corn & Potato Fertilizer.....	Rockville	1.28	1.21	.....	.....	2.05	.....	10.27	10.00	22.10	20.47

37668	Excelsior Plant Food	Frederick	2.08	2.00			2.85		10.05	10.00	27.76	26.00
37669	Old Virginia Compound	Frederick	1.08	1.00	.94	1.00	3.73		8.83	8.00	24.35	21.60
37719	Queen (Low Grade)	Mt. Airy	.56	.50			1.35		10 88	10.00	17.52	15.50
37670	Super Phosphate	Frederick					1.08		16.04	16.00	19.47	1 .
	Rasin-Monumental Co., Balto., Md.											
37528	Rasin's Acid Phosphate 16%	Baltimore					.25		16.46	16.00	19.80	19.20
37744	Rasin's Acid Phos. 12% (L.G.)	Baltimore					.80		12.40	12.00	15.04	14.40
37671	Rasin's Crop Grower	Woodbine	1.28	1.00	1.01	1.00	.90	1.00	8.63	8.00	24.73	22.00
37672	Rasin's Empire Guano	Germantown	2.17	2.00	2.44	2.00	1.95		8 32	8.00	38.15	33.60
37782	Rasin's Empire Super Phos.	Baltimore	3.09	3.00			.45	1.00	10.37	10.00	34.25	33.40
37770	Rasin's Fish & Bone Guano	Baltimore	2.10	2.00			1.30	1.00	12.09	11.00	29. 73	27.60
37745	Rasin's Sea Wall Special (L.Gr.)	Baltimore					.83		10.09	10.00	12.28	12.00
37673	Rasin's Special Fish Mixture	Germantown	1.19	1.00			1.50	1.00	9.70	10.00	20.57	19.40
37752	Rasin's United Grain Grower	Baltimore	.96	1.00	2.05	2.00	.98	1.00	8.55	8.00	27.62	27.00
37707	Rsn. Wht., Corn & Oats Mix. (L.G.)	Hampstead	.67	.50	1.81	2.00	1.05	1.00	8.23	8.00	24.04	23.50
37753	William Penn Crop Grower	Baltimore	1.23	1.00	1.10	1.00	.70	1 00	8.34	8.00	24.40	22.90
	Reindollar Co., Taneytown, Md.											
37720	Acid Phosphate	Taneytown					1.33		16 52	16.00	20.09	19.20
37721	Ammoniated Phosphate	Taneytown	2.03	2.00			1.00		13.47	12.00	30.77	28.40
	W. E. Robinson & Co., Bel Air, Md.											
37616	Vegetable & Grain (Low Grade)	Baltimore	2.18	2.00	.32	.25	1.05		8.02	8.00	26.90	24.85
	F. S. Royster Guano Co., Balto., Md.											
37592	Acid Phosphate 14%	Berwyn					1.58		14.33	14.00	17.52	16.80
37562	Acid Phosphate 16%	Baltimore					.83		16.15	16.00	19.55	19.20
37582	Alaska 7% Ammoniated Phos.	Baltimore	6.65	7 00			1 10		8.40	8.00	57 07	58.60
37529	Ammoniated Super Phosphate	Baltimore	5.02	5 00			1.88		7.68	7.00	45.11	43.40
37518	Corn & Oats Fertilizer (L. Gr.)	Baltimore	1.13	1.00			2.05		9.43	8.00	20.05	16.60
37583	Cuckoo Crop Grower	Baltimore	1.19	1.00	1.18	1.00	1.80		8.56	8.00	25.22	21.60
37593	Curfew Ammoniated Super Phos.	Berwyn	3.34	4.00			1.55		8.06	8.00	33.67	37.60
37771	Dreadnaught Fertilizer	Baltimore	1.95	2 00	1.83	2.00	1.15		8.86	8.00	33.89	33.60
37519	Fish, Flesh & Fowl Fertillzer	Baltimore	2.24	2.00	3.02	3.00	2.10		8.04	8.00	41.27	38.60
37777	Fish & Potash Mixture	Baltimore	1.95	2.00	1.02	1.00	1.05		9.45	8.00	30.51	28.60
37778	Flamingo Amm'd Super Phos.	Baltimore	2.63	2.50			1.75		10.41	12.00	31.60	31.90
37513	Innovation Am'd Super Phos	Baltimore	3.16	3.00			1.58		10.17	8.00	34.95	30.60
37520	Penguin Amm'd Super Phos	Baltimore	2.12	2.00			1.20		9.53	10.00	26 76	26.00
37521	Potatomato Fish Mixture	Baltimore	1.76	2.00	1.03	1.00	1.03		9.14	8.00	28.85	28.60
37594	Pure Raw Bone Meal	Berwyn	4.95	4.50			22 55*	21.50*			48.18	44.40

*Total Phosphoric Acid.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	F. S. Royster Guano Co., Balto., Md.											
37522	Royal Blue Amm'd Super-Phos..	Baltimore.....	1.28	1.00	.....	.....	1.50	.....	10.23	10.00	$21.84	$19.00
37557	War Time Top Dresser.....	Baltimore.....	2.20	2.00	.....	.....	1.20	.....	9.64	10.00	27.45	26.00
37558	Wheat, Oats & Barley Fert.....	Baltimore.....	1.88	1.00	2.23	2.00	2.25	.....	8.27	8.00	35.13	26.60
	Scott Fertilizer Co., Elkton, Md.											
37641	Ammoniated Bone.....	Elkton.....	2.12	2.00	.....	.....	2.20	.....	13.37	12.00	31.76	28.40
37642	Crop Grower.....	Rising Sun.....	2.15	2.00	.....	.....	3.30	.....	9.85	8.00	28.19	23.60
37708	Pennsylvania Potato Grower....	Aberdeen.....	.92	1.00	2.02	2.00	1.45	.....	9.48	8.00	25.80	26.60
37643	Potato Grower..	Elkton.....	2.15	2.00	1.14	1.00	1.90	...	9.26	10.00	32.62	31.00
37644	Pure Ground Raw Bone.....	Rising Sun	4 50	4.00	.....	.....	*23.35	*21.00	.....	.....	45 51	40.60
37645	Special Grain Grower.....	North East.....	1.08	1.00	.....	.....	1.63	.....	10.60	10.00	20.93	19.00
37646	Sure Growth Phosphate.....	Colora.....	2.15	2.00	1.13	1.00	2.23	.....	8.21	8.00	31.44	28.60
37647	Tip Top Soluble Phosphate.....	North East.....	.....	.....	.....	.....	.90	.....	16.28	16.00	19.72	19.20
	Sears, Roebuck & Co., Chicago, Ill.											
37786	Reputation Acid Phosphate.....	Baltimore.....	.....	.....	.....	.....	1.70	.....	16.25	16.00	19.84	19.20
	Standard Guano Co., Baltimore, Md.											
37452	Buyers Mixture.....	Brooklyn (J.F.S) ..	5.19	5.70	.....	.....	.70	.....	9.79	10.75	43.36	52.80
	W. H. Streett & Co., Fallston, Md.											
37709	Acid Phosphate.....	Fallston	.....	.....	.....	.....	.43	.....	15.35	16.00	13.51	19.20
37803	Ammoniated Dissolved Bone....	.....	1.67	1.50	.60	1.00	.78	.50	9.61	9.00	26.53	26.30
37683	Animal Compound.....	Baltimore.....	2.17	2.50	.....	.....	.58	.....	10.26	10.00	27.73	29.50
37682	Standard (Low Grade)	Baltimore.....	1.13	1.00	.....	.....	.65	.50	6.44	8.00	15.90	16.80

	Superior Guano Co., Baltimore, Md.											
37509	Acid Phosphate 16%	Baltimore					1.20		16.29	16.00	$19.79	$19.20
375 5	Ammoniated Dissolved Bone	Baltimore	1.33	1.25			1.75		9.85	10.00	21 83	20.75
37530	M. B. W. Amm'd Phos. & Pot.	Baltimore	1.21	1.00	2.34	2.00	1.30		8.46	8.00	30.84	26.60
37531	M. B. W. Big Crop Grower	Baltimore	2.47	2.00	1.84	2.00	1.65		8.55	8.00	37.41	33.60
37737	Bone, Blood & Potash	Baltimore	4.06	5.00	1.28	1.00	1.15		8.03	8.00	44.92	49.60
37784	Buyers Mixture	Baltimore	2.76	3.50	1.46	1.00	1.23		9.07	8.00	37.99	39.10
37607	Corn & Grass (Low Grade)	Baltimore			.83	1.25	4.90		5.38	8.00	11 59	15.85
37569	Corn & Tomato Fertilizer (L.G.)	Baltimore	.68	.50	1.06	1.00	2.10		9.74	8.00	22.59	18.10
37738	Crop Producer	Baltimore	1.23	1.00	1.12	1.00	.75		8.02	8.00	24.13	21.60
37643	Dissolved Bone	Preston	1.37	1.25			2.25		9.77	10.00	22.21	20 75
37532	M. B. W. Dissolved Bone	Baltimore	2.10	2.00			1.50		10.02	10.00	27.32	26.00
37570	Half & Half (Low Grade)	Baltimore			1.14	1.25	.85		8.08	8.00	15.57	15.85
37746	Royal Crop Grower	Baltimore	1.60	2 00	.87	1.00	.50		5.59	8.00	22.46	28.60
37571	Special Corn & Grass (Low Gr.)	Baltimore			1 02	1.25	1.25		9.16	8.0	16.34	15.85
37608	Special Mixture	Baltimore	1.37	1.25	.92	1.00	1.25		9.43	9.00	26.01	24.55
37798	M. B. W. Special Mixture		3.17	3.00			.98		7.91	7.00	32.07	29 40
37534	M. B. W. Special Mixture	Baltimore	2.22	2.00	5.26	6.00	.90		8.25	8.00	52.10	53.60
37572	Stevens Asparagus Mixture	Baltimore	2.49	3.00			.90		8.06	8.00	27.46	30.60
	Swift & Co., Inc., Baltimore, Md.											
37545	Acid Phosphate 16%	Baltimore					1.45		16.78	16.00	20.43	19.20
37586	Ammoniated Phosphate	Baltimore	1.21	1.00			1 85		10.17	10.00	21.41	19.00
37617	Bone Meal	Baltimore	3.07	3.00			*22.79	*24.00			35 16	35.40
37684	Cereal Fertilizer	Baltimore	1.79	1.00			1.00		9.68	9.00	24.55	17.80
37741	Corn & Grass Grower (Low Gr.)	Baltimore	1.13	1.00			.95		6.48	7.00	16.07	15.40
37597	Diamond "A" Fertilizer	Baltimore	3.17	3.00	1.43	1.00	1.40		7.84	8.00	39.31	35.60
37768	"C" Grain Fertilizer 1-8-0 (L.G.)	Baltimore	1.30	1.00			1.10		8.08	8.00	19.24	16.60
37742	Grain Grower	Baltimore	1.26	1.00	1.11	2.00	1.60		8.02	8.00	24.63	26.60
37618	Raw Bone Meal	Baltimore	4.52	4.50			*22.08	*23.00			44.89	45.30
37598	Red Steer	Baltimore	2.03	2.00	1.83	2.00	1.35		8.53	8.00	34.14	33.60
37788	Reliable Grain Fertilizer		1.02	1.00	1.24	1.00	1.46		8.02	8.00	23.54	21.60
37609	Special "A"	Baltimore	3 02	3.00			1.25		8.07	8.00	31.32	30 60
37599	Special Corn Grower	Baltimore	1.79	2.00			1.08		10.08	10 00	25.06	26.00
37546	Special Fertilizer	Baltimore	3 16	3.00			1.95		7.57	8.00	31.98	30 60
37600	Special Truck Grower	Baltimore	3.65	3.00	2.96	3.00	1.15		8.02	8.00	50.43	45.60
37610	Sweet Potato 3-9-0,	Baltimore	3 63	3.00			1.60		8.12	9.00	35.79	31.80
37732	Truck & Potato	Baltimore	4.40	4.00			1.73		8.02	8.00	41.11	37.60
37601	Truck & Vegetable	Baltimore	2.06	2.00	1.26	1.00	1.30		8.02	8.00	30.86	28.60

*Total Phosphoric Acid.

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							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Swift & Co., Inc., Baltimore, Md.											
37796	Virginia Potato	.....	4.86	5.00	.....	.....	1.22	.....	7.44	7.00	$43.44	$43.40
37760	Wheat & Rye Grower	Baltimore	2.05	2.00	.....	.....	1.25	.....	8.02	8.00	24.47	23.60
	Tanner Hide & Tallow Co., Hagerstown, Md.											
37723	Animal Tankage	Hagerstown	5.80	5.00	.....	.....	13.13*	12.00*	.....	.....	48.48	42.20
37724	Bone Phosphate	Hagerstown	2.59	2.00	.....	.....	6.95	.....	8 89	8.00	31.58	23.60
	H. S. Taveau & Co., Baltimore, Md.											
37548	Allerton Guano	Baltimore	1.74	1.00	1.76	2.00	1.75	.....	8.13	8.00	31.44	26.60
37772	Bone Compound	Baltimore	1.08	1.00	.....	.....	1.08	.....	10.04	10.00	20.04	19.00
37611	Pride of Maryland	Baltimore	1.23	1.00	.94	1.00	1.95	.....	9.62	10.00	25.63	24.00
	Thomas & Co., Frederick, Md.											
37674	Acid Phosphate	Union Bridge	.....	.....	.....	.....	1.30	.....	11.20	14.00	13.70	16.80
37675	Harvest Queen	Middleburg	1.43	1.25	.....	.....	.20	.....	10.04	10.00	22.14	20.75
37676	Plant Food Phosphate	Union Bridge	1 30	1.00	.....	.....	1.75	.....	10.59	9.00	22.51	17.80
	I. P. Thomas & Son Co., Phila., Pa.											
37612	Acid Phosphate 16%	Annapolis	.....	.....	.....	.....	.55	.....	16.72	16.00	20.17	19.20
37613	Farmers' Choice Fertilizer	Annapolis	3.29	3.00	.....	.....	.63	.....	10.29	10.00	35.63	33.00
37614	Tip Top Fertilizer	Annapolis	3.36	3.00	1.06	1.00	1.35	.....	8.26	8.00	39.27	35.60
	W. B. Tilghman Co., Salisbury, Md.											
37649	Acid Phosphate	Mardela Springs	.....	.....	.....	.....	.30	.....	16.02	16.00	19.28	19.20
37650	Bone Tankage Mixture	Preston	2.18	2.00	.....	.....	4.33	.....	10.19	11.00	29.22	27.20

37651	Early Truck Guano	Preston	5.01	5.00			1.25		7.80	8.00	44.93	44.60
37693	Fish Bone Phosphate	Federalsburg	1.28	1.00			1.50		12.10	11.00	24.08	20.20
37652	Mixture "B"	Preston	4.21	4.00			1.20		9.02	9.00	40.77	38.80
37653	Special Potato Fertilizer	Preston	3 02	3.00			1.75		9.03	9.00	32.68	31.80
37654	Special Tomato & Potash	Preston	2.20	2.00	3.68	3.00	2.13		7.23	8.00	43.33	38.60
37655	Standard Fish Mixture	Rhodesdale	1.88	2.00			1.70		10.01	10.00	25.85	26.00
37702	Sweet Potato Potash Mixture	Salisbury	3.02	3.00	3.16	3.00	1.90		8.03	8.00	47.34	45.60
	J. E. Tygert Co., Phila., Pa.											
37711	Ammoniated Fertilizer "AA"	Fallston	2.17	2.00			1.35		10.03	10.00	27.77	26.00
37514	Ammoniated Fertilizer "AAA"	Baltimore	3.21	3.00			1.45		9.98	10.00	35.03	33.00
37710	Neptune Fish Compound	Fallston	1.26	1.00	1.03	1.00	1.00		7.13	7.00	22.93	20.40
	J. Tyson & Son, Frederick, Md.											
37677	Corn & Potato Fertilizer	Frederick	.94	1.00			1.15		10.40	10.00	19.52	19.00
	E. S. Valliant & Son, Church Hill, Md.											
37785	Amm'd Potash Mixture (L. G.)	Baltimore	.51	.25	.32	.25	1.10		8.29	10.00	15.61	15.00
37755	Amm'd Potash Mixture (L. G.)	Baltimore	.34	.25	.26	.25	.95		8.61	9.00	14.39	13.80
37549	Caroline Mixture (Low Grade)	Baltimore	1.38	1.25			1.10		8.14	8.00	19 87	18.35
37563	Favorite Brand	Baltimore	2.03	2.00			1.20		10.04	10.00	26.74	26.00
37656	General Crop Mixture	Church Hill	1.19	1.00	1.18	1.00	1.30		8.74	8.00	25.24	21.60
37761	Grain Grower (Low Grade)	Baltimore	.65	.50	.28	.25	1.03		10.13	10.00	18.52	16.75
37694	1-9 Fertilizer	Federalsburg	1.28	1.00			.30		9.39	9.00	20.35	17.80
37551	Tomato Guano	Baltimore	1.93	2.00			1.00		8.88	8.00	24.57	23.60
37564	Truck Compound	Baltimore	4.33	4.00			1.10		8.29	8.00	40.70	37.60
37685	2-8-5 Fertilizer	Baltimore	1.93	2.00	4.92	5.00	.55		8.09	8.00	48.04	48.60
37686	2-8-3 Fertilizer	Baltimore	2.27	2.00	2.68	3.00	1.03		8.06	8.00	39.37	38.60
37773	2-8-2 Fertilizer	Baltimore	2.12	2.00	1.38	2.00	.75		8.10	8 00	31.76	33.60
	W. H. Valliant & Bro., Bellevue, Md.											
37657	Crab Phosphate (Low Grade)	Bellevue	2.75	2.00			.30		2.09	2.00	21.88	16.40
	Virginia-Carolina Chemical Co., Richmond, Va.											
37725	Acid Phosphate	Emmitsburg					1.05		16.89	16.00	20.48	19.20
37559	Fish & Bone Mixture	Baltimore	2.17	2.00			2.98	1.00	10.62	11.00	29.12	27.60
37712	Special Corn for Wheat	Laurel	.90	1.00	1.04	1.00	1.00		9.07	8.00	22.78	21.60
37695	Special Fish Preparation	Pittsville	1.18	1.00			2.25		9.71	10.00	20.81	19.00
37747	Special Formula for Wheat	Baltimore	1.08	1.00	1.26	1.00	1.00	1.00	8.88	8.00	24.92	22.00
37500	Potato Grower 7%	Baltimore	7.03	7.00			1.20		8 08	8.00	59.39	58.60
37754	Special Componnd for Wheat	Baltimore	1.25	1.00	1.14	1.00	.75	1.00	8.21	8.00	24.60	22.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Virginia-Carolina Chemical Co., Ri	**chmond, Va.**										
37733	Standard Crop Grower	Baltimore	2.42	2.00	2.28	2.00	1.55	....	9.78	8.00	$40.70	$33.60
37501	Star Trucker Special	Baltimore	5.70	5.00	.....	.....	1.10	.....	7.56	8.00	49.41	44.60
37502	Truck & Vegetable Super-Phos.	Baltimore	4.06	4.00	.....	.....	.93	.....	7.66	8.00	37.98	37.60
	S. L. Webster & Son, Cambridge,	**Md.**										
37658	Fish Mixture	Rhodesdale	1.64	2.00	....	.....	1.60	.....	11.50	10.00	25.92	26.00
37659	Fish & Bone	Cambridge	1.55	1.50	....	.....	1.10	.....	12.53	10.00	26.33	22.50
37660	Our Special Make	Cambridge	.92	1.00	.....	.....	1.55	.....	11.36	10.00	20.69	19.00
	Westminster Fertilizer Co., Westmi	**nster, Md.**										
37678	Governor	Westminster	1.51	1.50	.....	.....	.93	.....	10.74	11.00	23.83	23 70
37679	Leader	Westminster	1.13	1.00	....	.....	.55	....	9.47	10.00	19.49	19.00
37680	Super-A	Westminster	1.08	1.00	.....	.....	.50	.....	8.51	9.00	17.97	17.80
	F. M. Wilson & Co., Pocomoke City,	**Md.**										
37696	Favorite Truck Fertilizer	Pocomoke City	3.92	4.00	.....	....	3.15	.....	10.75	10.00	41.60	40.00
37697	Peninsula Amm'd Super Phos.	Pocomoke City	1.52	1.50	.....	....	1.20	.....	14.93	12.00	29.04	24.90
	Robert A. Wooldridge Co., Balto.,	**Md.**										
37573	Acid Phosphate H. G. 16%	Baltimore	.....	.....	.....	.....	.65	.....	16.65	16.00	20.11	19 20
37756	Ammoniated Phosphate	Baltimore	1.13	1.00	.80	1.00	.95	.....	9.30	8.00	23.45	21.60
37574	Basic Lime Phosphate (Low Gr.)	Baltimore	.....	.....	.....	....	3.25	1.00	12.71	13.00	15.90	15.80
37587	Benefactor Trucker	Baltimore	5.07	5.00	....	....	.60	.....	8.43	8.00	45.81	44.60
37602	Common Sense Super-Phosphate	Baltimore	4.11	4.00	.....	.....	.80	.....	10.07	10.00	41.17	40.00
37713	Dissolved Animal Bone	White Hall	2.51	2.50	.....	.....	4.50	.....	12.53	12.00	34.41	31.90

37608	Dissolved Soluble Phos. (L. Gr.)	Baltimore	.....	.....	.....	.....	1.00	.....	9.36	10.00	$11.43	$12.00
37620	Dissolved S.C. Phosphate (L.G.)	Baltimore	.....	.....	.....	.....	.85	.....	12.49	12.00	15.16	14.40
37794	Extra Value Truck	Baltimore	4.56	5.00	.....	.....	1.30	....	7.87	7.00	41.88	43.40
37757	FarmersFav. CerealComp. (L.G.)	Baltimore	.68	.50	1.23	1.00	.83	.....	8.10	8.00	20.96	18.10
37714	Fine Ground Bone	Towson	3 17	3.00	.....		*23.67	*22.88	.....	.....	36.39	34.73
37661	General Crop Grower (Low Gr.)	Preston	1.11	.50	1.03	1.00	.95	....	8.37	8.00	23.34	18.10
37734	H. G. Dissolved Animal Bone	Baltimore	2.37	2.50	.....	.....	3.55	.....	10.80	12.00	30.97	31.90
37735	No. 1 Fish Mixture (Low Grade)	Baltimore	1.23	1.00	.80	1.00	1.75	.....	7.93	7.00	22.83	20.40
37762	Old Fidelity Phosphate	Baltimore	2.04	2.00	.....	.....	1 62	.....	9.75	10 00	26 63	26.00
37523	Quick Acting Phosphate 1916	Baltimore	2.34	2.50	1.07	1.00	1.28	.....	8.02	8.00	31.86	32.10
37763	Special Fish Mixture	Baltimore	2.70	2.50	.....	.....	.50	.....	8.98	8.00	29.88	27.10
37783	Special Potato & Tobacco 19 6	Baltimore	1.83	2.00	.96	1.00	.88	.....	10.12	10.00	30.10	31.00
37764	Special Wheat & Grass Grower	Baltimore	1.62	1.50	.....	.....	1.35	.....	10.20	10.00	24.12	22.50
37588	Triumph Fertilizer	Baltimore	1.71	1.50	1.22	1.00	.95	.....	9.84	10 00	30.26	27.50
37615	Truckers Wonder	Baltimore	3.16	3.00	.....	.....	1.55	.....	9.48	9.00	34.12	31.80
	Worcester Fertilizer Co., Snow Hill, Md.											
37698	Corn Grower	Snow Hill	1.18	1.00	.....	.....	1.45	.....	10.87	10.00	21.88	19.00
37699	Fish Mixture	Snow Hill	3 01	3.00	.....	.....	1.55	....	9 77	10.00	33.41	33.00
37700	General Crop Grower	Berlin	2.49	2.00	.....	.....	2.83	.....	9.68	10.00	30.18	26.00
37701	Special Fish Mixture	Berlin	3.52	3.00	.....	.....	2.40	.. ..	8.77	10.00	36.12	33.00
	York Chemical Works, York, Pa.											
37726	Dempwolf's Golden Sheaf (L.G.)	Woodsboro	1.02	1.00	.....	.....	.98	.....	9.17	8 00	18 53	16.60
37727	Dempwolf's Harvest Queen	Woodsboro	1.09	1.00	.80	1.00	1.15	.....	8.44	8.00	22 22	21.60

*Total Phosphoric Acid.

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